# WEATHER MAPS,

PUBLISHED AT SYDNEY,

## NEW SOUTH WALES,

1880.
July – Dec

H. C. RUSSELL, B.A.,

GOVERNMENT ASTRONOMER.

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# WEATHER MAP.

1 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 1 July .....16·308

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

*If it is Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 70 | 31 | 0 |
| Tenterfi'ld | b | 55 | 33 | 0 |
| Grafton.. | f | 67 | 31 | 0 |
| Inverell.. | b | 52 | 25 | 0 |
| Bourke .. | n | 69 | 32 | 0 |
| Narrabri.. | b | 58 | 35 | 0 |
| Armidale . | n | 49 | 20 | 0 |
| Bendemeer | b | 52 | 17 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 59 | 21 | 0 |
| P.Macqrie | b | 62 | 37 | 0 |
| Murr'undi | b | 51 | 35 | 0 |
| Cassilis.. | n | 56 | 29 | 0 |
| Mus'brook | b | 59 | 34 | 0 |
| Dubbo... | n | 52 | 36 | 0 |
| Mudgee.. | u | 61 | 35 | 0 |
| Maitland . | b | 54 | 37 | 0 |
| Newcastle | b | 62 | 40 | 0 |
| Orange .. | c | 46 | 29 | 0 |
| Bathurst.. | c | 40 | 32 | 0 |
| Mt Victoria | b | .. | .. | 0 |
| Forbes... | r | 58 | 35 | 0·12 |
| Eucla | 13 30·30 | 55 | E. | |
| SYDNEY | c | 57 | 41 | 0 |
| Wentw'th | b | 59 | 35 | 0 |
| Young... | p | 48 | 37 | 0·05 |
| Woll'gong | c | 65 | 44 | 0 |
| Moss Vale | b | 44 | 32 | 0 |
| Euston... | b | 60 | 37 | 0 |
| Goulburn. | b | 50 | 32 | 0 |
| Wagga... | u | 53 | 39 | 0·08 |
| Cape Geo. | b | 59 | . | 0 |
| Queanb'an | c | 49 | 33 | 0 |
| Deniliquin | u | 51 | 38 | 0·13 |
| Albury... | c | 56 | 36 | 0·13 |
| Bodalla .. | n | 63 | 30 | 0 |
| Cooma... | n | 42 | 32 | 0 |
| Eden..... | b | 56 | 44 | 0 |
| Gabo Isld | .. | .. | .. | .. |

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# WEATHER MAP.

2 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 2 July .....16·308

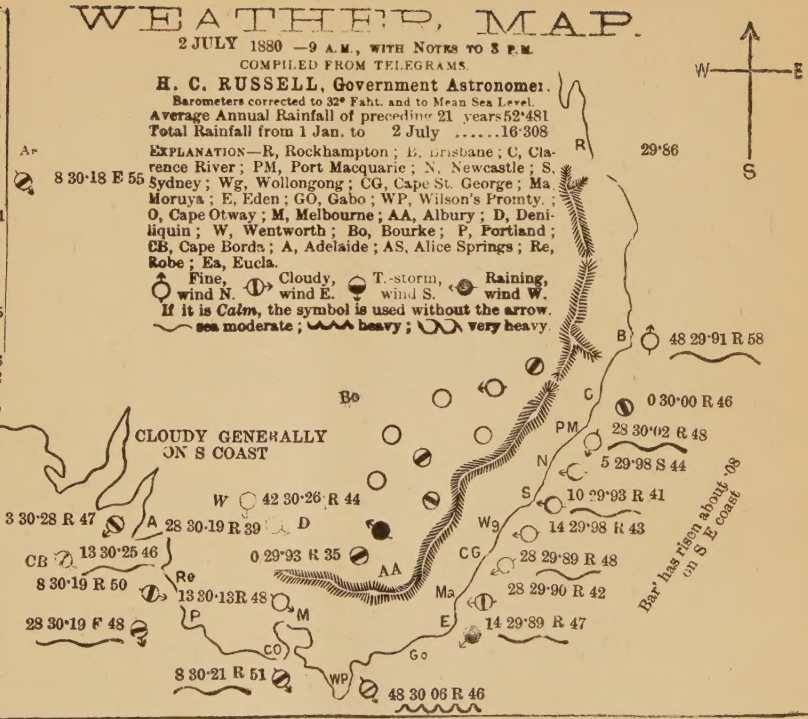
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 73 | 38 | 0 |
| Tenterfi'ld | u | 57 | 22 | 0 |
| Grafton.. | u | 67 | 16 | 0 |
| Inverell.. | b | 56 | 32 | 0 |
| Bourke .. | .. | .. | .. | .. |
| Narrabri.. | b | 59 | 35 | 0 |
| Armidale.. | b | 50 | 29 | 0 |
| Bendemeer | b | 54 | 19 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 54 | 20 | 0·01 |
| P.Macqrie | b | 60 | 43 | 0 |
| Murr'undi | c | 50 | 36 | 0 |
| Cassilis.. | n | 50 | 29 | 0 |
| Mus'brook | b | 56 | 31 | 0 |
| Dubbo... | u | 54 | 36 | 0 |
| Mudgee.. | b | 54 | 34 | 0·15 |
| Maitland . | b | 56 | 36 | 0 |
| Newcastle | b | 60 | 39 | 0 |
| Orange .. | c | 44 | 29 | 0·06 |
| Bathurst.. | u | 41 | 30 | 0·12 |
| Mt Victoria | b | 42 | 12 | 0 |
| Forbes... | b | 56 | 32 | 0·40 |
| 23 30·22 52 Ea | | | | |
| SYDNEY | b | 56 | 40 | 0 |
| Wentw'th | b | 55 | 30 | 0 |
| Young... | f | 44 | 34 | 0 |
| Woll'gong | b | 62 | 36 | 0 |
| Moss Vale | n | 46 | 29 | 0 |
| Euston... | n | 57 | 37 | 0 |
| Goulburn. | u | 48 | 29 | 0·01 |
| Wagga... | f | 51 | 31 | 0 |
| Cape Geo. | f | 58 | . | 0 |
| Queanb'an | b | 45 | 32 | 0 |
| Deniliquin | n | 50 | 34 | 0·27 |
| Albury... | c | 48 | 28 | 0 |
| Bodalla .. | p | 58 | 35 | 0·08 |
| Cooma... | s | 53 | 31 | 0·04 |
| Eden..... | r | 52 | 43 | 0·52 |
| Gabo Isld | .. | .. | .. | .. |



# WEATHER MAP.

3 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 3 July .....16·358

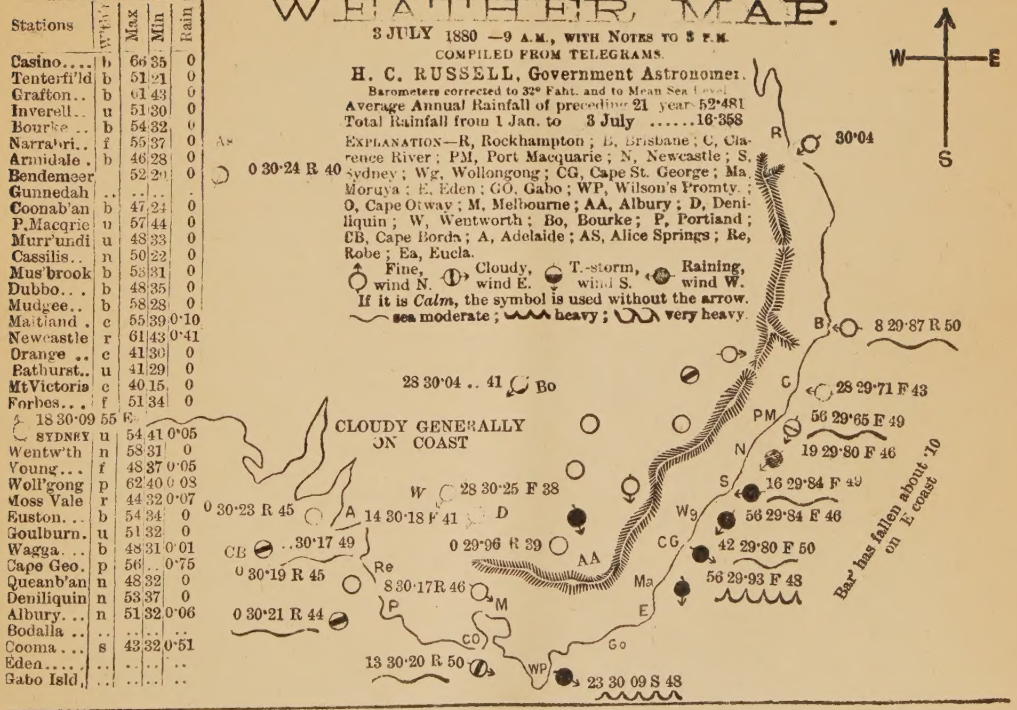
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

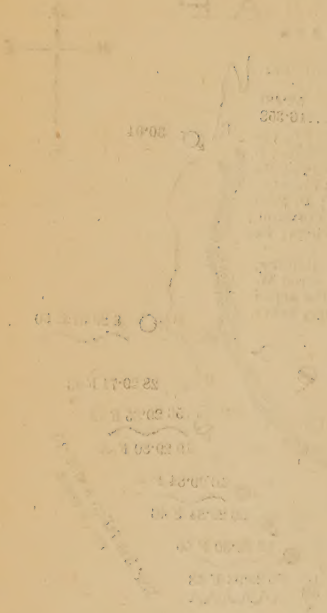
Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 66 | 35 | 0 |
| Tenterfi'ld | b | 51 | 21 | 0 |
| Grafton.. | b | 61 | 43 | 0 |
| Inverell.. | u | 51 | 30 | 0 |
| Bourke .. | b | 54 | 32 | 0 |
| Narra'uri.. | f | 55 | 37 | 0 |
| Armidale . | b | 46 | 28 | 0 |
| Bendemeer | | 52 | 20 | 0 |
| Gunnedah | .. | .. | .. | . |
| Coonab'an | b | 47 | 24 | 0 |
| P.Macqrie | u | 57 | 44 | 0 |
| Murr'undi | u | 48 | 33 | 0 |
| Cassilis.. | n | 50 | 22 | 0 |
| Mus'brook | b | 53 | 31 | 0 |
| Dubbo... | b | 48 | 35 | 0 |
| Mudgee.. | b | 58 | 28 | 0 |
| Maitland . | c | 55 | 39 | 0·10 |
| Newcastle | r | 61 | 43 | 0·41 |
| Orange .. | c | 41 | 30 | 0 |
| Bathurst.. | u | 41 | 29 | 0 |
| MtVictoria | c | 40 | 15 | 0 |
| Forbes... | f | 51 | 34 | 0 |
| 18 30·09 55 E | | | | |
| SYDNEY | u | 54 | 41 | 0·05 |
| Wentw'th | n | 58 | 31 | 0 |
| Young... | f | 48 | 37 | 0·05 |
| Woll'gong | p | 62 | 40 | 0·08 |
| Moss Vale | r | 44 | 32 | 0·07 |
| Euston... | b | 54 | 34 | 0 |
| Goulburn. | u | 51 | 32 | 0 |
| Wagga... | b | 48 | 31 | 0·01 |
| Cape Geo. | p | 56 | .. | 0·75 |
| Queanb'an | n | 48 | 32 | 0 |
| Deniliquin | n | 53 | 37 | 0 |
| Albury... | n | 51 | 32 | 0·06 |
| Bodalla .. | .. | .. | .. | .. |
| Cooma... | s | 43 | 32 | 0·51 |
| Eden..... | .. | .. | .. | .. |
| Gabo Isld, | .. | .. | .. | .. |





# WEATHER, MAP.

**5 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.**

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 5 July .....16·541

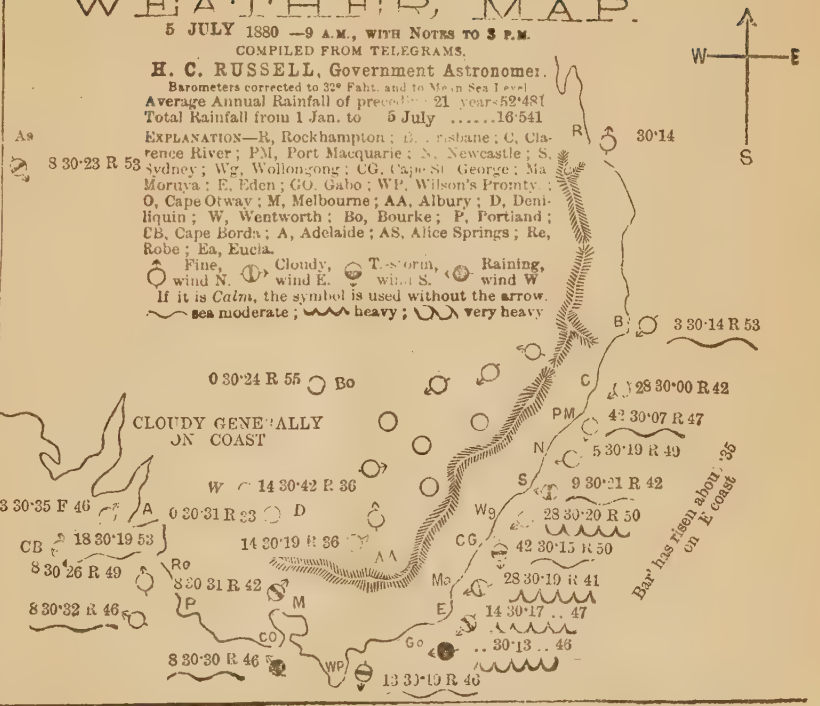
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy

| Stations | | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 69 | 31 | 0 |
| Tenterfi'ld | b | 40 | 33 | 0 |
| Grafton.. | b | 70 | 35 | 0 |
| Inverell. | b | 54 | 23 | 0 |
| Bourke .. | b | 66 | 32 | 0 |
| Narra'ri.. | b | 69 | 31 | 0 |
| Armidale . | n | 47 | 23 | 0 |
| Bendemeer | | 52 | 18 | 0 |
| Gunnedah | .. | .. | .. | . |
| Coonab'an | b | 54 | 21 | 0 |
| P.Macqrie | b | 61 | 40 | 0 |
| Murr'undi | b | 7 | 55 | 0 |
| Cassilis.. | n | 60 | 22 | 0 |
| Mus'brook | n | 61 | 51 | 0 |
| Dubbo.. | n | 52 | 32 | 0 |
| Mudgee.. | n | 63 | 27 | 0 |
| Maitland . | b | 57 | 38 | 0·25 |
| Newcastle | b | 59 | 44 | 0 |
| Orange .. | n | 43 | 26 | 0 |
| Bathurst.. | fn | 49 | 24 | 0 |
| MtVictoria | n | 45 | 16 | 0 |
| Forbes... | f | 50 | 30 | 0 |
| SYDNEY | c | 55 | 41 | 0·18 |
| Wentw'th | n | 59 | 26 | 0 |
| Young... | n | 54 | 31 | 0 |
| Woll'gong | b | 60 | 43 | 0 |
| Moss Vale | n | 47 | 31 | 0·05 |
| Euston... | n | 66 | 23 | 0 |
| Goulburn. | b | 53 | 25 | 0 |
| Wagga... | f | 64 | 29 | 0 |
| Cape Geo. | b | 60 | .. | 0 |
| Queanb'an | n | 50 | 26 | 0 |
| Deniliquin | b | 58 | 34 | 0 |
| Albury.... | n | 60 | 27 | 0·03 |
| Bodalla .. | c | 59 | 30 | 0 |
| Cooma... | u | 55 | 30 | 0 |
| Eden..... | u | 57 | 44 | 0·06 |
| Gabo Isld. | p | 54 | 44 | 0·15 |



# WEATHER MAP.

6 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 6 July .....16·542

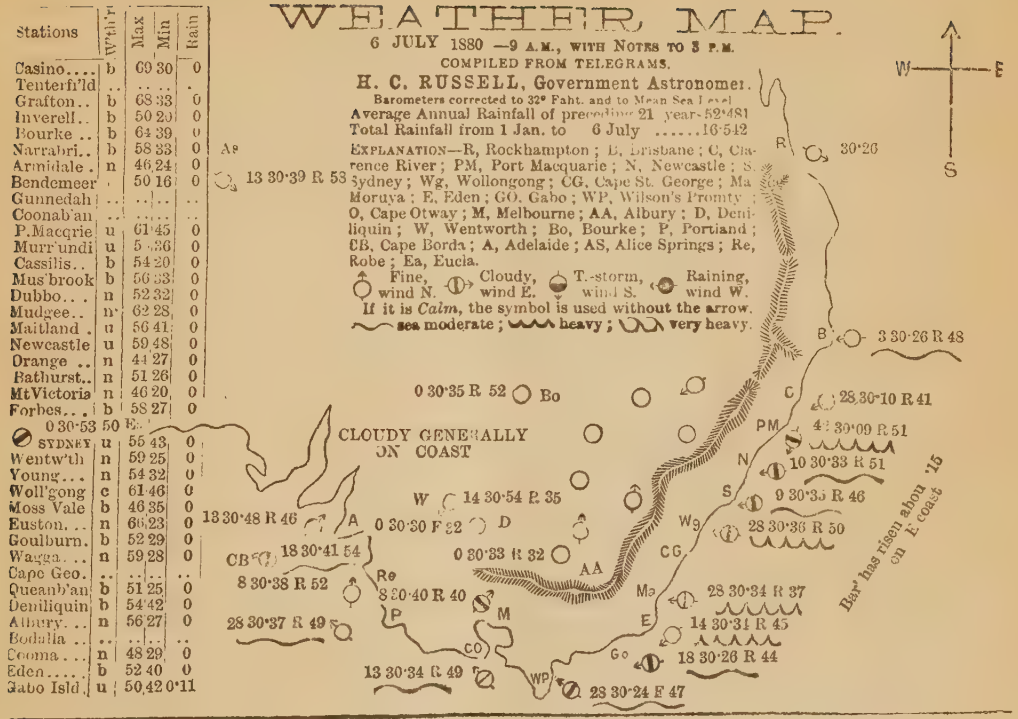
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 69 30 | | 0 |
| Tenterfi'ld | .. | .. .. | | . |
| Grafton.. | b | 68 33 | | 0 |
| Inverell.. | b | 50 29 | | 0 |
| Bourke .. | b | 64 39 | | 0 |
| Narrabri.. | b | 58 33 | | 0 |
| Armidale . | n | 46 24 | | 0 |
| Bendemeer | . | 50 16 | | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | .. | ..... | | .. |
| P.Macqrie | u | 61·45 | | 0 |
| Murr'undi | u | 5 .26 | | 0 |
| Cassilis.. | b | 54 20 | | 0 |
| Mus'brook | b | 56 33 | | 0 |
| Dubbo... | n | 52 32 | | 0 |
| Mudgee.. | n | 62 28 | | 0 |
| Maitland . | u | 56 41 | | 0 |
| Newcastle | u | 59 48 | | 0 |
| Orange .. | n | 44 27 | | 0 |
| Bathurst.. | n | 51 26 | | 0 |
| MtVictoria | n | 46 20 | | 0 |
| Forbes... | b | 58 27 | | 0 |
| 0 30·53 50 R... | | | | |
| SYDNEY | u | 55 43 | | 0 |
| Wentw'th | n | 59 25 | | 0 |
| Young... | n | 54 32 | | 0 |
| Woll'gong | c | 61·46 | | 0 |
| Moss Vale | b | 46 35 | | 0 |
| Euston... | n | 66 23 | | 0 |
| Goulburn. | b | 52 29 | | 0 |
| Wagga... | n | 59 28 | | 0 |
| Cape Geo. | .. | .. .. | | .. |
| Queanb'an | b | 51 25 | | 0 |
| Deniliquin | b | 54 42 | | 0 |
| Albury... | n | 56 27 | | 0 |
| Bodalla ... | .. | .. .. | | .. |
| Cooma... | n | 48 29 | | 0 |
| Eden.... | b | 52 40 | | 0 |
| Gabo Isld. | u | 50,42 | 0·11 | |



# WEATHER MAP.

7 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 7 July .....16·549

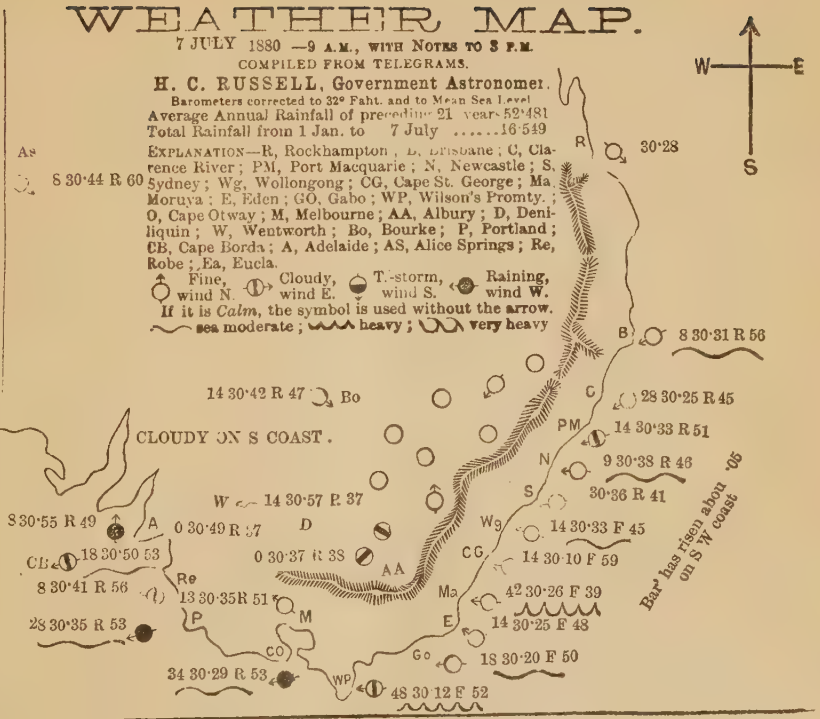
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 69 | 35 | 0 |
| Tenterfi'ld | b | 56 | 16 | 0 |
| Grafton.. | b | 68 | 38 | 0 |
| Inverell.. | b | 54 | 25 | 0 |
| Bourke .. | b | 64 | 29 | 0 |
| Narrabri.. | b | 51 | 32 | 0 |
| Armidale . | c | 48 | 28 | 0 |
| Bendemeer | | 54 | 19 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 57 | 19 | 0 |
| P.Macqrie | u | 61 | 44 | 0 |
| Murr'undi | b | 48 | 36 | 0 |
| Cassilis.. | n | 55 | 20 | 0 |
| Mus'brook | b | 59 | 31 | 0 |
| Dubbo... | b | 52 | 30 | 0 |
| Mudgee.. | n | 65 | 28 | 0 |
| Ma'tland . | b | 57 | 37 | 0 |
| Newcastle | b | 60 | 41 | 0 |
| Orange .. | b | 46 | 27 | 0 |
| Bathurst.. | n | 54 | 22 | 0 |
| MtVictoria | n | 47 | 18 | 0 |
| Forbes... | b | 60 | 26 | 0 |
| 0 30·61 54 E. | | | | |
| SYDNEY | b | 55 | 39 | 0·01 |
| Wentw'th | n | 58 | 39 | 0 |
| Young... | n | 55 | 31 | 0 |
| Woll'gong | b | 61 | 40 | 0 |
| Moss Vale | n | 48 | 30 | 0 |
| Euston... | n | 71 | 24 | 0 |
| Goulburn. | b | 55 | 26 | 0 |
| Wagga .. | n | 59 | 28 | 0 |
| Cape Geo. | .. | .. | .. | .. |
| Queanb'an | b | 50 | 24 | 0 |
| Deniliquin | b | 54 | 30 | 0 |
| Albury... | c | 55 | 28 | 0 |
| Bodalla .. | .. | .. | .. | .. |
| Cooma... | n | 46 | 19 | 0 |
| Eden.... | b | 55 | 40 | 0 |
| Gabo Isld | b | 56 | 43 | 0 |



# WEATHER MAP.

8 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 8 July .....16·551

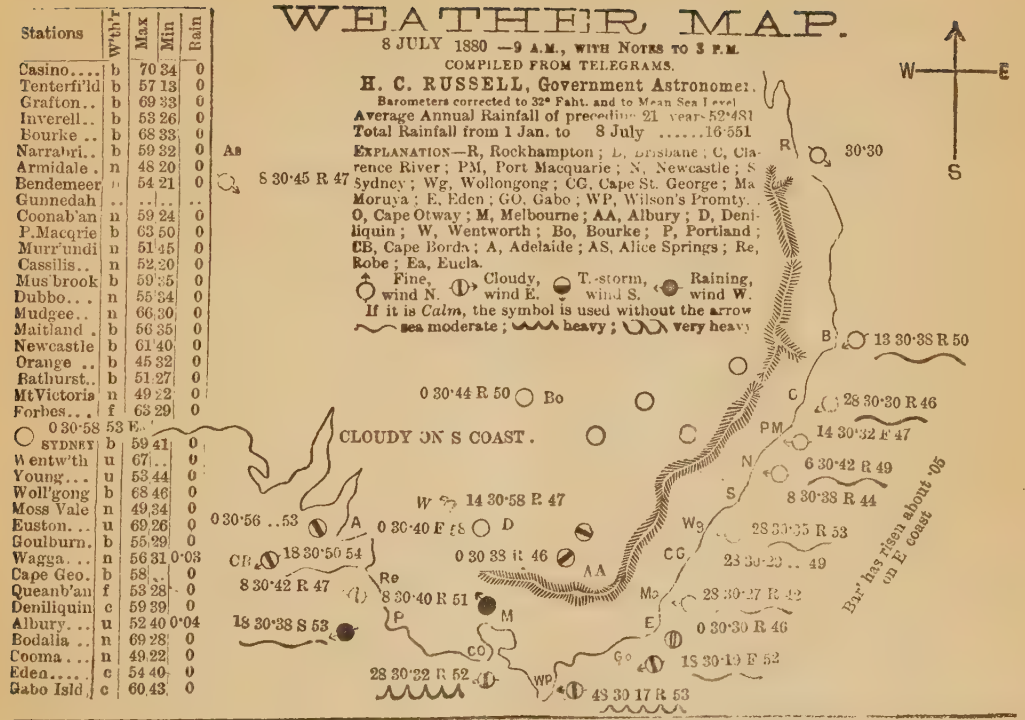
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 70 | 34 | 0 |
| Tenterfi'ld | b | 57 | 13 | 0 |
| Grafton.. | b | 69 | 33 | 0 |
| Inverell.. | b | 53 | 26 | 0 |
| Bourke .. | b | 68 | 33 | 0 |
| Narrabri.. | b | 59 | 32 | 0 |
| Armidale . | n | 48 | 20 | 0 |
| Bendemeer | n | 54 | 21 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 59 | 24 | 0 |
| P.Macqrie | b | 63 | 50 | 0 |
| Murr'undi | n | 51 | 45 | 0 |
| Cassilis.. | n | 52 | 20 | 0 |
| Mus'brook | b | 59 | 35 | 0 |
| Dubbo... | n | 55 | 34 | 0 |
| Mudgee.. | n | 66 | 30 | 0 |
| Maitland . | b | 56 | 35 | 0 |
| Newcastle | b | 61 | 40 | 0 |
| Orange .. | b | 45 | 32 | 0 |
| Bathurst.. | b | 51 | 27 | 0 |
| MtVictoria | n | 49 | 22 | 0 |
| Forbes... | f | 63 | 29 | 0 |
| SYDNEY | b | 59 | 41 | 0 |
| Wentw'th | u | 67 | .. | 0 |
| Young... | u | 53 | 44 | 0 |
| Woll'gong | b | 68 | 46 | 0 |
| Moss Vale | n | 49 | 34 | 0 |
| Euston... | u | 69 | 26 | 0 |
| Goulburn. | b | 55 | 29 | 0 |
| Wagga... | n | 56 | 31 | 0·03 |
| Cape Geo. | b | 58 | .. | 0 |
| Queanb'an | f | 53 | 28 | 0 |
| Deniliquin | c | 59 | 39 | 0 |
| Albury... | u | 52 | 40 | 0·04 |
| Bodalla .. | n | 69 | 28 | 0 |
| Cooma... | n | 49 | 22 | 0 |
| Eden.... | c | 54 | 40 | 0 |
| Gabo Isld | c | 60 | 43 | 0 |



# WEATHER MAP.

9 JULY 1889 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 9 July .....16·553

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 74 | 52 | 0 |
| Tenterfi'ld | b | 58 | 13 | 0 |
| Grafton.. | b | 70 | 37 | 0 |
| Inverell.. | b | 56 | 24 | 0 |
| Bourke .. | b | 70 | 36 | 0 |
| Narrabri.. | b | 59 | 33 | 0 |
| Armidale . | b | 51 | 24 | 0 |
| Bendemeer | .. | 57 | 22 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 60 | 22 | 0 |
| P.Macqrie | b | 62 | 43 | 0 |
| Murr'undi | b | 52 | 35 | 0 |
| Cassilis.. | n | 52 | 23 | 0 |
| Mus'brook | b | 62 | 35 | 0 |
| Dubbo... | b | 54 | 33 | 0 |
| Mudgee.. | n | 67 | 27 | 0 |
| Maitland . | b | 56 | 35 | 0 |
| Newcastle | b | 66 | 40 | 0 |
| Orange .. | b | 47 | 33 | 0 |
| Bathurst.. | u | 53 | 32 | 0 |
| Mt Victoria | n | 49 | 15 | 0 |
| Forbes... | b | 64 | 33 | 0 |
| 13 30·46 50 E | | | | |
| SYDNEY | b | 59 | 41 | 0 |
| Wentw'th | u | 56 | 43 | 0 |
| Young... | n | 53 | 39 | 0 |
| Woll'gong | b | 68 | 40 | 0 |
| Moss Vale | n | 45 | 32 | 0 |
| Euston... | c | 71 | 25 | 0 |
| Goulburn. | b | 53 | 27 | 0 |
| Wagga... | u | 56 | 31 | 0 |
| Cape Geo. | b | 62 | .. | 0 |
| Queanb'an | n | 52 | 28 | 0 |
| Deniliquin | fb | 58 | 43 | 0 |
| Albury... | p | 55 | 35 | 0·03 |
| Bodalla .. | n | 67 | 27 | 0 |
| Cooma... | nf | 51 | 15 | 0·09 |
| Eden.... | b | 58 | 39 | 0 |
| Gabo Isld. | b | 58 | 45 | 0 |

# WEATHER MAP.

10 JULY 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 10 July.....16·556

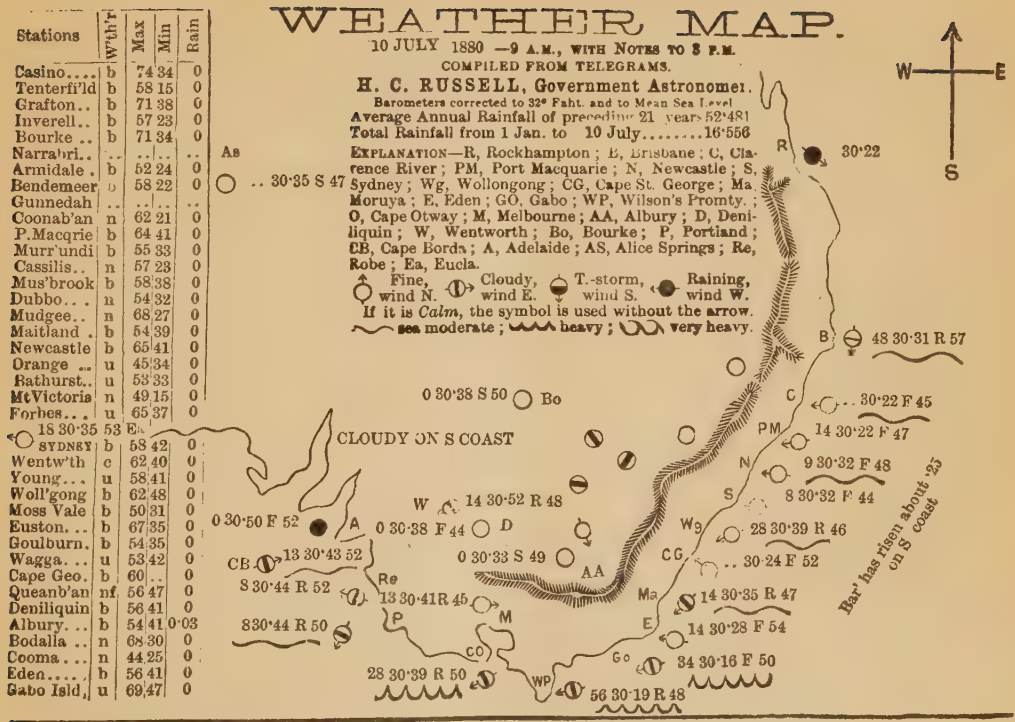
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate ; heavy ; very heavy.

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 74 | 34 | 0 |
| Tenterfi'ld | b | 58 | 15 | 0 |
| Grafton.. | b | 71 | 38 | 0 |
| Inverell.. | b | 57 | 23 | 0 |
| Bourke .. | b | 71 | 34 | 0 |
| Narrabri.. | .. | .. | .. | .. |
| Armidale . | b | 52 | 24 | 0 |
| Bendemeer | b | 58 | 22 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 62 | 21 | 0 |
| P.Macqrie | b | 64 | 41 | 0 |
| Murr'undi | b | 55 | 33 | 0 |
| Cassilis.. | n | 57 | 23 | 0 |
| Mus'brook | b | 58 | 38 | 0 |
| Dubbo... | n | 54 | 32 | 0 |
| Mudgee.. | n | 68 | 27 | 0 |
| Maitland . | b | 54 | 39 | 0 |
| Newcastle | b | 65 | 41 | 0 |
| Orange ... | u | 45 | 34 | 0 |
| Bathurst.. | u | 53 | 33 | 0 |
| McVictoria | n | 49 | 15 | 0 |
| Forbes... | u | 65 | 37 | 0 |
| 18 30·35 | 53 | Ea | | |
| SYDNEY | b | 58 | 42 | 0 |
| Wentw'th | c | 62 | 40 | 0 |
| Young... | u | 58 | 41 | 0 |
| Woll'gong | b | 62 | 48 | 0 |
| Moss Vale | b | 50 | 31 | 0 |
| Euston... | b | 67 | 35 | 0 |
| Goulburn. | b | 54 | 35 | 0 |
| Wagga... | u | 53 | 42 | 0 |
| Cape Geo. | b | 60 | .. | 0 |
| Queanb'an | nf | 56 | 47 | 0 |
| Deniliquin | b | 56 | 41 | 0 |
| Albury... | b | 54 | 41 | 0·03 |
| Bodalla .. | n | 68 | 30 | 0 |
| Cooma... | n | 44 | 25 | 0 |
| Eden..... | b | 56 | 41 | 0 |
| Gabo Isld. | u | 69 | 47 | 0 |



# WEATHER MAP.

12 to 14 JULY 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of previous 21 years 52·481

Total Rainfall from 1 Jan. to 11 July.....16·640

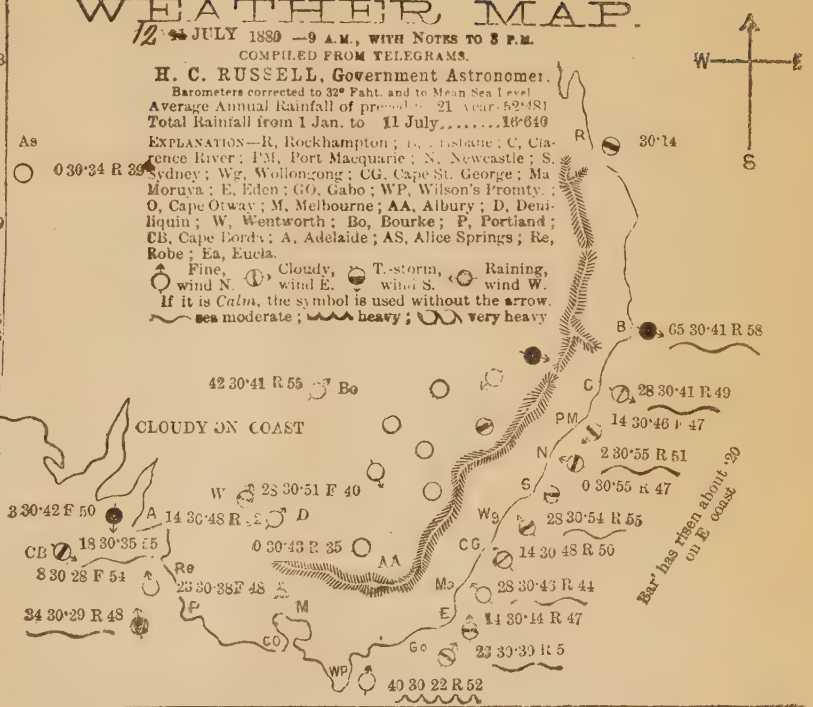
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | u | 63 | 51 | 0·13 |
| Tenterfi'ld | p | 58 | 24 | 0 |
| Grafton.. | p | 63 | 39 | 0 |
| Inverell.. | b | 61 | 28 | 0 |
| Bourke .. | b | 70 | 39 | 0 |
| Narrabri.. | b | 63 | 36 | 0 |
| Armidale . | u | 51 | 26 | 0 |
| Bendemeer | u | 56 | 27 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 60 | 28 | 0 |
| P.Macqrie | u | 60 | 50 | 0·19 |
| Murr'undi | f | 54 | 36 | 0 |
| Cassilis.. | u | 53 | 25 | 0 |
| Mus'brook | u | 61 | 45 | 0 |
| Dubbo... | b | 54 | 33 | 0 |
| Mudgee.. | u | 60 | 36 | 0 |
| Maitland . | u | 57 | 45 | 0·05 |
| Newcastle | u | 60 | 48 | 0·16 |
| Orange .. | c | 47 | 34 | 0 |
| Bathurst.. | f | 54 | 35 | 0 |
| MtVictoria | fu | 44 | 19 | 0·14 |
| Forbes... | b | 64 | 38 | 0 |
| 13 30·44 59 E. | | | | |
| SYDNEY | u | 56 | 45 | 0·08 |
| Wentw'th | u | 64 | 34 | 0 |
| Young.... | b | 54 | 32 | 0 |
| Woll'gong | u | 61 | 40 | 0 |
| Moss Vale | f | 47 | 32 | 0 |
| Euston... | u | 71 | 25 | 0 |
| Goulburn. | n | 53 | 26 | 0 |
| Wagga... | n | 62 | 30 | 0 |
| Cape Geo. | c | 54 | .. | 0 |
| Queanb'an | b | 55 | 25 | 0 |
| Deniliquin | b | 57 | 32 | 0 |
| Albury... | n | 60 | 22 | 0 |
| Bodalla .. | n | 62 | 25 | 0 |
| Cooma... | n | 45 | 19 | 0 |
| Eden.... | c | 32 | 40 | 0 |
| Gabo Isld. | c | 58 | 46 | 0 |



# WEATHER MAP.

13 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 13 July.....16·642

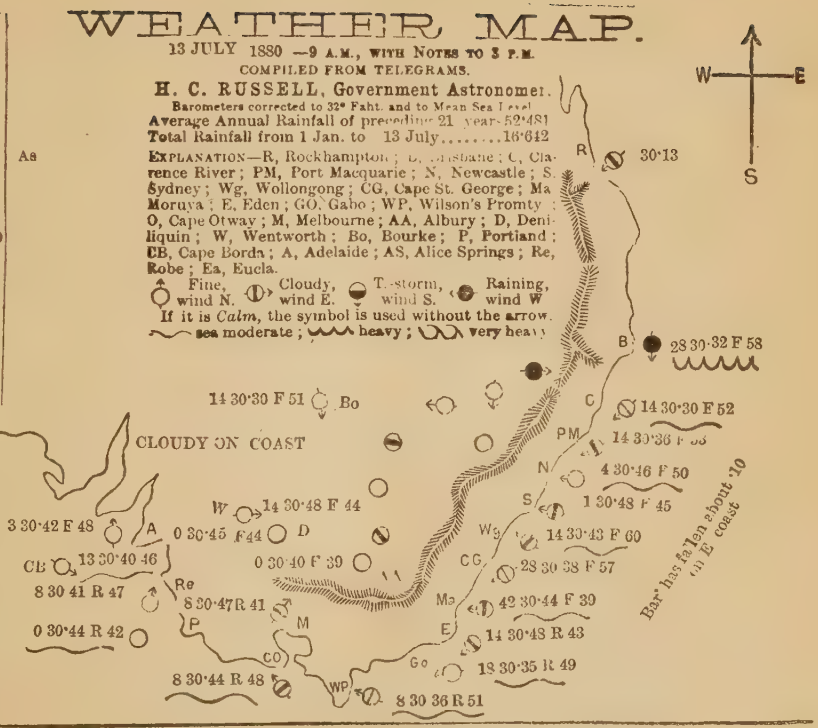
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | Wthr | Max | Min | Rain | |
|---|---|---|---|---|---|
| Casino.... | u | 65 | 50 | 0 | |
| Tenterfi'ld | p | 52 | 32 | 0 | |
| Grafton.. | p | 64 | 46 | 0 | |
| Inverell.. | b | 57 | 39 | 0 | |
| Bourke .. | b | 53 | 35 | 0 | |
| Narrabri.. | b | 61 | 39 | 0 | As |
| Armidale . | b | 52 | 27 | 0 | |
| Bendemeer | | 56 | 30 | 0 | |
| Gunnedah | b | 72 | 26 | 0 | |
| Coonab'ran | b | 61 | 23 | 0 | |
| P.Macqrie | p | 53 | 39 | 0·10 | |
| Murr'undi | b | 55 | 33 | 0 | |
| Cassilis.. | b | 58 | 23 | 0 | |
| Mus'brook | b | 65 | 35 | 0 | |
| Dubbo... | b | 55 | 34 | 0 | |
| Mudgee... | b | 72 | 39 | 0 | |
| Maitland . | b | 63 | 42 | 0 | |
| Newcastle | b | 64 | 48 | 0 | |
| Orange .. | b | 49 | 27 | 0 | |
| Bathurst.. | b | 54 | 27 | 0 | |
| MtVictoria | u | 49 | 14 | 0 | |
| Forbes... | u | 66 | 26 | 0 | |
| SYDNEY | u | 59 | 43 | 0 | |
| Wentw'th | b | 58 | 36 | 0 | |
| Young... | n | 55 | 33 | 0 | |
| Woll'gong | c | 64 | 41 | 0 | |
| Moss Vale | n | 50 | 29 | 0 | |
| Euston... | b | 65 | 36 | 0 | |
| Goulburn. | c | 55 | 22 | 0 | |
| Wagga... | n | 62 | 32 | 0 | |
| Cape Geo. | c | 59 | .. | 0 | |
| Queanb'an | n | 53 | 26 | 0 | |
| Deniliquin | b | 68 | 38 | 0 | |
| Albury... | b | 55 | 31 | 0 | |
| Bodalla .. | n | 68 | 29 | 0 | |
| Cooma... | n | 55 | 22 | 0 | |
| Eden..... | c | 50 | 40 | 0 | |
| Gabo Isld. | b | 66 | 55 | 0 | |



# WEATHER, MAP.

14 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 Year 52·481

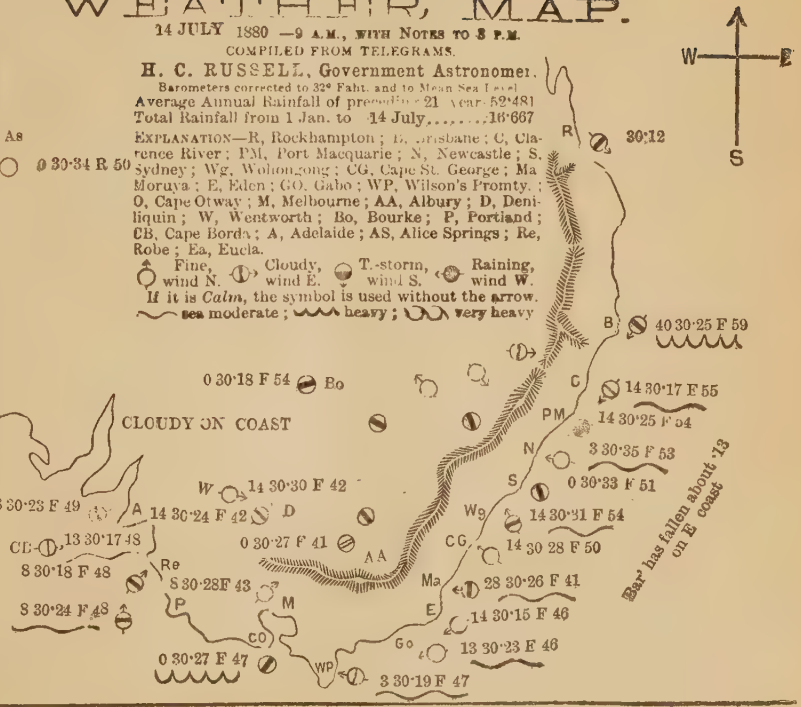
Total Rainfall from 1 Jan. to 14 July.....16·667

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy




| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 67 | 48 | 0·15 |
| Tenterfi'ld | p | 55 | 35 | 0·65 |
| Grafton.. | b | 66 | 51 | 0·07 |
| Inverell.. | b | 61 | 30 | 0 |
| Bourke .. | u | 72 | 45 | 0 |
| Narrabri.. | b | 43 | 40 | 0 |
| Armidale . | u | 54 | 35 | 0 |
| Bendemeer | | 53 | 26 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | u | 62 | 30 | 0 |
| P.Macqrie | p | 62 | 50 | 0·25 |
| Murr'undi | b | 58 | 43 | 0 |
| Cassilis.. | u | 58 | 30 | 0 |
| Mus'brook | u | 62 | 45 | 0 |
| Dubbo.. | u | 57 | 40 | 0 |
| Mudgee.. | u | 65 | 42 | 0 |
| Maitland . | bf | 60 | 45 | 0 |
| Newcastle | f | 64 | 49 | 0 |
| Orange .. | u | 48 | 32 | 0 |
| Bathurst.. | u | 55 | 31 | 0 |
| Mt Victoria | u | 51 | 22 | 0 |
| Forbes... | u | 62 | 33 | 0 |
| 0 30·19 53 E.. | | | | |
| SYDNEY | u | 56 | 45 | 0·03 |
| Wentw'th | c | 66 | 36 | 0 |
| Young... | c | 53 | 36 | 0 |
| Woll'gong | c | 61 | 48 | 0 |
| Moss Vale | c | 51 | 32 | 0 |
| Euston... | u | 76 | 36 | 0 |
| Goulburn. | b | 52 | 25 | 0 |
| Wagga... | b | 52 | 33 | 0 |
| Cape Geo. | b | 56 | .. | 0 |
| Queanb'an | n | 53 | 29 | 0 |
| Deniliquin | u | 61 | 35 | 0 |
| Albury... | b | 57 | 35 | 0 |
| Bodalla .. | n | 60 | 32 | 0 |
| Cooma... | nf | 54 | 25 | 0 |
| Eden..... | b | 55 | 43 | 0 |
| Gabo Isld. | b | 64 | 46 | 0 |

# WEATHER MAP.

15 JULY 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 15 July.....16·672

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S. Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 71 | 54 | 0 |
| Tenterfi'ld | c | 53 | 31 | 0 |
| Grafton.. | b | 70 | 49 | 0 |
| Inverell.. | u | 63 | 31 | 0 |
| Bourke .. | u | 71 | 50 | 0 |
| Narrabri.. | u | 73 | 51 | 0 |
| Armidale .. | | 52 | 32 | 0 |
| Bendemeer | c | 55 | 26 | 0 |
| Gunnedah | u | 71 | 42 | 0 |
| Coonab'an | u | 66 | 41 | 0 |
| P.Macqrie | u | 65 | 49 | 0·03 |
| Murr'undi | u | 57 | 46 | 0 |
| Cassilis.. | u | 63 | 42 | 0 |
| Mus'brook | u | 63 | 45 | 0 |
| Dubbo... | u | 59 | 45 | 0 |
| Mudgee.. | u | 72 | 45 | 0 |
| Maitland . | b | 59 | 49 | 0 |
| Newcastle | b | 65 | 49 | 0 |
| Orange .. | r | 52 | 40 | 0·45 |
| Bathurst.. | r | 57 | 35 | 0·09 |
| MtVictoria | u | 50 | 27 | 0 |
| Forbes... | r | 66 | 39 | 0·18 |
| 3 30·32 53 E. | | | | |
| SYDNEY | u | 60 | 49 | 0·01 |
| Wentw'th | b | 67 | 39 | 0 |
| Young... | r | 54 | 42 | 0·47 |
| Woll'gong | u | 66 | 49 | 0 |
| Moss Vale | u | 59 | 45 | 0 |
| Euston... | u | 69 | 33 | 0 |
| Goulburn. | b | 58 | 34 | 0 |
| Wagga... | r | 56 | 36 | 0·02 |
| Cape Geo. | c | 63 | .. | 0 |
| Queanb'an | b | 54 | 34 | 0 |
| Deniliquin | u | 58 | 39 | 0·02 |
| Albury... | u | 56 | 32 | 0·22 |
| Bodalla .. | n | 69 | 34 | 0 |
| Cooma... | c | 55 | 29 | 0 |
| Eden..... | b | 56 | 42 | 0 |
| Gabo Isld. | c | 64 | 45 | 0 |

# WEATHER MAP.

16 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 16 July.....16·709

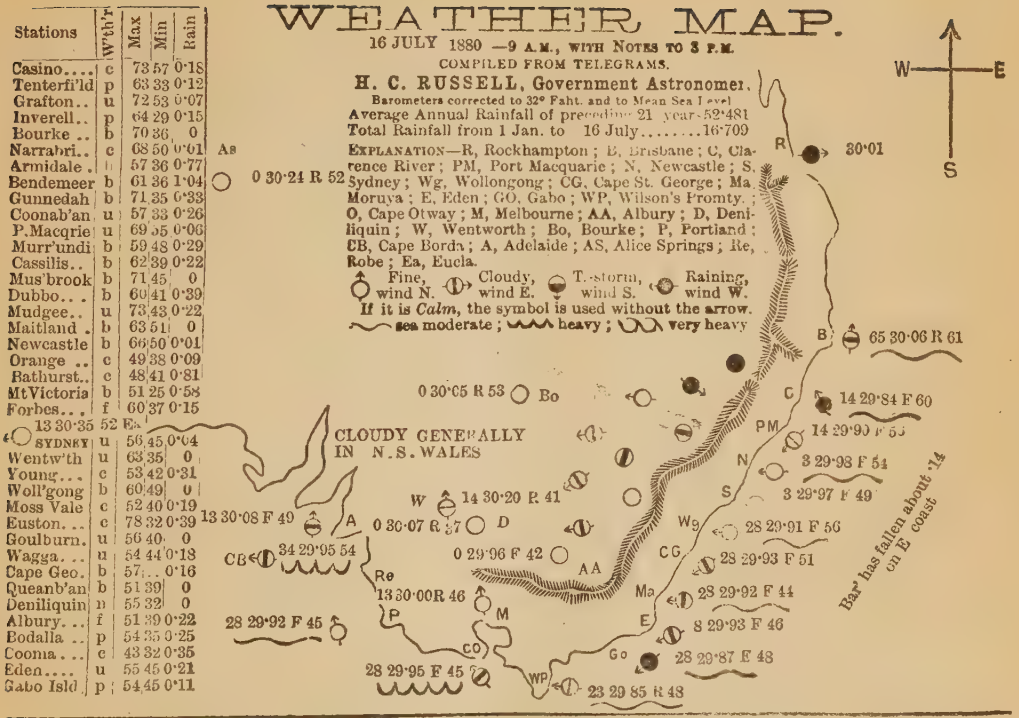
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 73 | 57 | 0·18 |
| Tenterfi'ld | p | 63 | 33 | 0·12 |
| Grafton.. | u | 72 | 53 | 0·07 |
| Inverell.. | p | 64 | 29 | 0·15 |
| Bourke .. | b | 70 | 36 | 0 |
| Narrabri.. | c | 68 | 50 | 0·01 |
| Armidale . | n | 57 | 36 | 0·77 |
| Bendemeer | b | 61 | 36 | 1·04 |
| Gunnedah | b | 71 | 35 | 0·33 |
| Coonab'an | u | 57 | 33 | 0·26 |
| P.Macqrie | u | 69 | 55 | 0·06 |
| Murr'undi | b | 59 | 48 | 0·29 |
| Cassilis.. | b | 62 | 39 | 0·22 |
| Mus'brook | b | 71 | 45 | 0 |
| Dubbo... | b | 60 | 41 | 0·39 |
| Mudgee.. | u | 73 | 43 | 0·22 |
| Maitland . | b | 63 | 51 | 0 |
| Newcastle | b | 66 | 50 | 0·01 |
| Orange .. | c | 49 | 38 | 0·09 |
| Bathurst.. | c | 48 | 41 | 0·81 |
| MtVictoria | b | 51 | 25 | 0·58 |
| Forbes... | f | 60 | 37 | 0·15 |
| SYDNEY | u | 56 | 45 | 0·04 |
| Wentw'th | u | 63 | 35 | 0 |
| Young... | c | 53 | 42 | 0·31 |
| Woll'gong | b | 60 | 49 | 0 |
| Moss Vale | c | 52 | 40 | 0·19 |
| Euston... | c | 78 | 32 | 0·39 |
| Goulburn. | u | 56 | 40 | 0 |
| Wagga... | u | 54 | 44 | 0·18 |
| Cape Geo. | b | 57 | .. | 0·16 |
| Queanb'an | b | 51 | 39 | 0 |
| Deniliquin | n | 55 | 32 | 0 |
| Albury... | f | 51 | 39 | 0·22 |
| Bodalla .. | p | 54 | 35 | 0·25 |
| Cooma... | c | 43 | 32 | 0·35 |
| Eden.... | u | 55 | 45 | 0·21 |
| Gabo Isld | p | 54 | 45 | 0·11 |



# WEATHER, MAP.

17 JULY 1880.—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 59·453

Total Rainfall from 1 Jan. to 17 July..... ..16·713

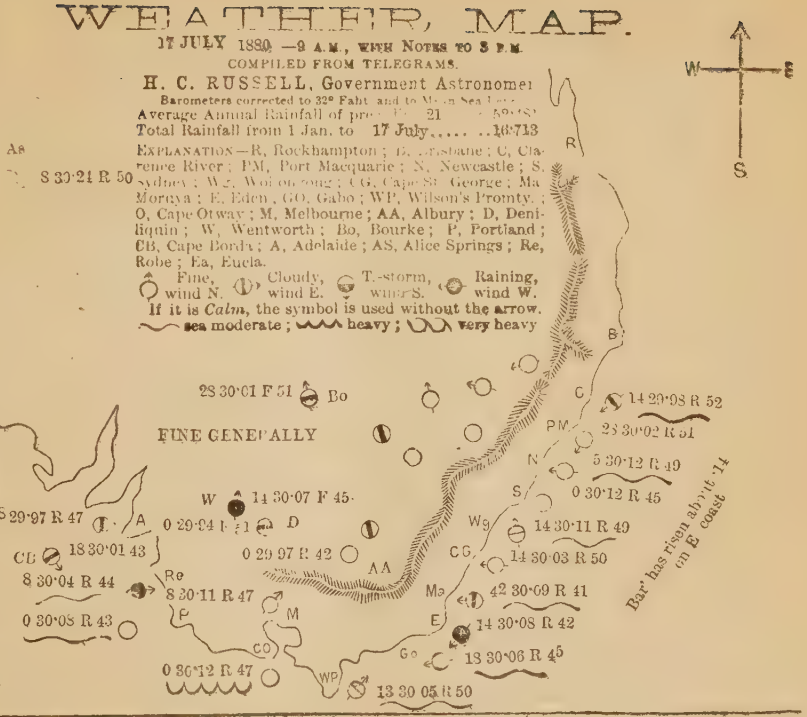
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; W, Wollongong; CG, Cape St George; Ma Moreya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Eu, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | Weth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 65 49 | | 0 |
| Tenterfi'ld | b | 61 20 | | 0 |
| Grafton.. | b | 70 49 | | 0 |
| Inverell.. | b | 69 27 | | 0·05 |
| Bourke .. | c | 69 37 | | 0 |
| Narrabri.. | | 67 44 | | 0 |
| Armidale.. | b | 56 29 | | 0 |
| Bendemeer | b | 58 30 | | 0 |
| Gunnedah | b | 71 24 | | 0 |
| Coonab'ran | b | 58 25 | | 0 |
| P.Macqrie | b | 61 44 | | 0 |
| Murr'undi | b | 58 42 | | 0 |
| Cassilis.. | b | 51 25 | | 0 |
| Mus'brook | b | 65 37 | | 0 |
| Dubbo.. .. | u | 57 39 | | 0 |
| Mudgee.. | u | 72 33 | | 0 |
| Maitland .. | b | 61 43 | | 0 |
| Newcastle | b | 61 43 | | 0 |
| Orange .. | n | 47 29 | | 0 |
| Bathurst.. | n | 51 29 | | 0 |
| MtVictoria | n | 50 19 | | 0 |
| Forbes... | u | 58 33 | | 0·06 |
| 23 30·34 | 56 E.. | | | |
| SYDNEY | b | 58 33 | | 0 |
| Wentw'th | r | 60 37 | | 0·15 |
| Young... | n | 53 35 | | 0·3 |
| Woll'gong | c | 62 39 | | 0 |
| Moss Vale | n | 51 30 | | 0 |
| Euston... | r | 67 34 | | 0 |
| Goulburn. | f | 46 27 | | 0 |
| Wagga. .. | b | 51 31 | | 0 |
| Cape Geo. | b | 51 .. | | 0 |
| Queanb'an | b | 52 26 | | 0 |
| Deniliquin | u | 54 33 | | 0 |
| Albury. .. | b | 51 39 | | 0 |
| Bodalla .. | u | 64 35 | | 0·02 |
| Cooma... | c | 58 22 | | 0 |
| Eden..... | p | 56 39 | | 0·03 |
| Gabo Isld. | b | 55 41 | | 0 |



# WEATHER MAP.

19 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 59·481

Total Rainfall from 1 Jan. to 19 July.....16·809

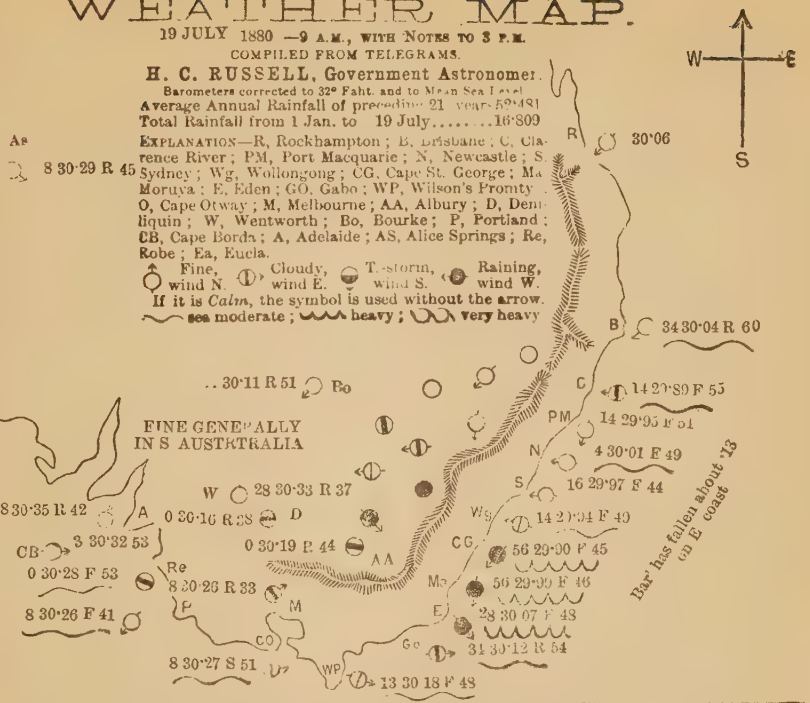
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | Weath. | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 68 | 49 | 0 |
| Tenterfield | b | 58 | 22 | 0 |
| Grafton.. | b | 70 | 46 | 0 |
| Inverell.. | b | 62 | 30 | 0 |
| Bourke .. | b | 66 | 35 | 0 |
| Narrabri.. | | 62 | 31 | 0 |
| Armidale . | u | 50 | 31 | 0·11 |
| Bendemeer | b | 59 | 29 | 0 |
| Gunnedah | b | 72 | 38 | 0 |
| Coonabarabran | b | 62 | 32 | 0 |
| P.Macquarie | b | 63 | 47 | 0 |
| Murrundi .. | u | 53 | 42 | 0·07 |
| Cassilis.. | b | 52 | 32 | 0·38 |
| Muswellbrook | c | 61 | 43 | 0 |
| Dubbo... | f | 58 | 37 | 0·54 |
| Mudgee.. | b | 59 | 38 | 0·08 |
| Maitland . | b | 59 | 44 | 0·08 |
| Newcastle | b | 59 | 43 | 0 |
| Orange .. | b | 49 | 32 | 0 |
| Bathurst.. | u | 54 | 31 | 0·20 |
| Mt Victoria | u | 47 | 20 | 0·03 |
| Forbes... | u | 64 | 35 | 0 |
| SYDNEY | b | 55 | 41 | 0·10 |
| Wentworth | n | 59 | 22 | 0 |
| Young... | u | 55 | 41 | 0 |
| Wollongong | c | 58 | 36 | 0·05 |
| Moss Vale | r | 44 | 26 | 0·13 |
| Euston... | n | 61 | 31 | 0 |
| Goulburn.. | u | 46 | 36 | 0·17 |
| Wagga .. | c | 64 | 35 | 0·28 |
| Cape Geo. | u | 50 | .. | 1·57 |
| Queanbeyan | p | 51 | 33 | 0·72 |
| Deniliquin | c | 60 | 32 | 0 |
| Albury... | u | 59 | 30 | 0 |
| Bodalla .. | .. | .. | .. | .. |
| Cooma... | s | 45 | 34 | 0·30 |
| Eden.... | r | 57 | 45 | 0·57 |
| Gabo Isld | u | 56 | 46 | 0·94 |



# WEATHER MAP.

20 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 20 July.....16·851

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino... ... | b | 71 | 38 | 0 |
| Tenterfi'ld | c | 54 | 20 | 0 |
| Grafton.. | b | 71 | 46 | 0 |
| Inverell.. | b | 55 | 21 | 0 |
| Bourke .. | b | 65 | 34 | 0 |
| Narrabri.. | b | 55 | 37 | 0 |
| Armidale . | u | 49 | 35 | 0·07 |
| Bendemeer | u | 54 | 36 | 0 |
| Gunnedah | b | 71 | 25 | 0 |
| Coonab'an | b | 57 | 28 | 0·02 |
| P.Macqrie | b | 64 | 42 | 0 |
| Murr'undi | u | 51 | 45 | 0 |
| Cassilis.. | u | 53 | 38 | 0 |
| Mus'brook | u | 61 | 47 | 0 |
| Dubbo... | u | 52 | 39 | 0 |
| Mudgee.. | u | 67 | 35 | 0 |
| Maitland . | b | 59 | 45 | 0 |
| Newcastle | b | 62 | 46 | 0·02 |
| Orange ... | b | 42 | 33 | 0·07 |
| Bathurst.. | b | 43 | 37 | 0 |
| McVictoria | c | 41 | 21 | 0 |
| Forbes.. . | c | 58 | 37 | 0 |
| SYDNEY | b | 55 | 45 | 0·04 |
| Wentw'th | n | 58 | 30 | 0 |
| Young... | u | 48 | 39 | 0·13 |
| Woll'gong | b | 60 | 37 | 0·05 |
| Moss Vale | b | 40 | 32 | 0 |
| Euston... | n | 64 | 30 | 0 |
| Goulburn. | s | .. | 32 | 1·12 |
| Wagga... | b | 63 | 35 | 0 |
| Cape Geo. | b | 54 | .. | 1·15 |
| Queanb'an | b | 45 | 35 | 0·12 |
| Deniliquin | n | 58 | 30 | 0 |
| Albury... | n | 59 | 30 | 0 |
| Bodalla .. | b | 53 | 44 | 1·46 |
| Cooma ... | q | 44 | 36 | 0·13 |
| Eden.... | | 49 | 45 | 0·64 |
| Gabo Isld. | | 54 | 45 | 0 |

# WEATHER MAP.

21 JULY, 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 21 July.....16·851

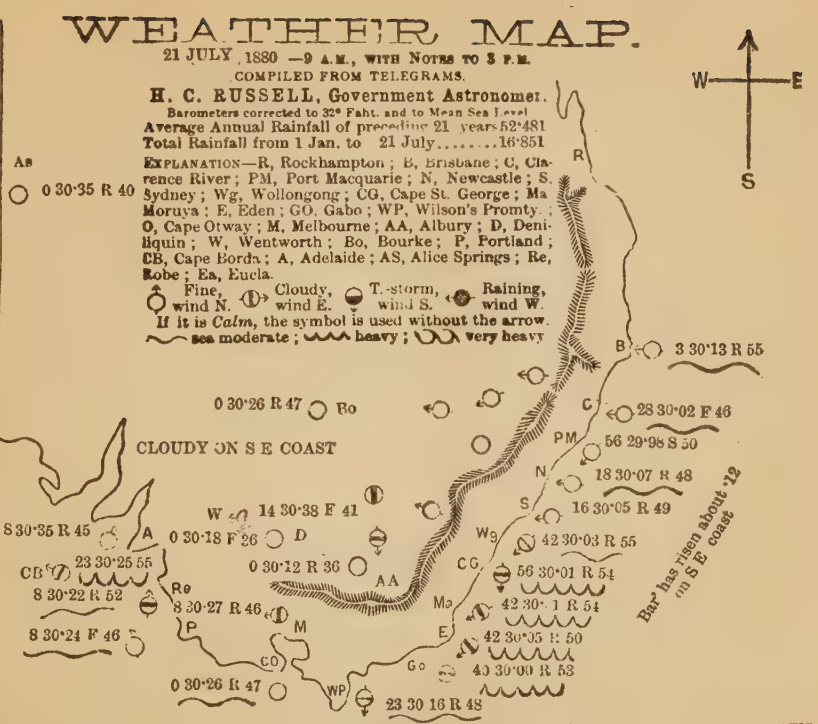
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | Wth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 68 | 31 | 0 |
| Tenterfi'ld | b | 52 | 19 | 0 |
| Grafton.. | b | 69 | 37 | 0 |
| Inverell.. | b | 54 | 21 | 0 |
| Bourke .. | b | 66 | 38 | 0 |
| Narrabri.. | b | 68 | 33 | 0 |
| Armidale . | b | 49 | 30 | 0 |
| Bendemeer | u | 53 | 23 | 0 |
| Gunnedah | b | 68 | 20 | 0 |
| Coonab'an | n | 56 | 28 | 0 |
| P.Macqrie | b | 63 | 45 | 0 |
| Murr'undi | b | 52 | 42 | 0 |
| Cassilis.. | n | 53 | 20 | 0 |
| Mus'brook | b | 61 | 43 | 0 |
| Dubbo... | b | 35 | 35 | 0 |
| Mudgee.. | b | 69 | 37 | 0 |
| Maitland . | b | 60 | 45 | 0 |
| Newcastle | b | 61 | 43 | 0 |
| Orange .. | n | 45 | 33 | 0 |
| Rathurst.. | b | 49 | 33 | 0 |
| MtVictoria | b | 44 | 20 | 0 |
| Forbes... | b | 77 | 44 | 0 |
| SYDNEY | b | 58 | 47 | 0 |
| Wentw'th | c | 61 | 34 | 0 |
| Young... | u | 52 | 33 | 0 |
| Woll'gong | c | 63 | 51 | 0 |
| Moss Vale | u | 47 | 35 | 0 |
| Euston... | b | 68 | 31 | 0 |
| Goulburn. | b | 54 | 34 | 0 |
| Wagga ... | b | 54 | 30 | 0 |
| Cape Geo. | c | 60 | .. | 0 |
| Queanb'an | b | 53 | 35 | 0 |
| Deniliquin | n | 58 | 30 | 0 |
| Albury... | n | 57 | 27 | 0 |
| Bodalla .. | b | 60 | 44 | 0 |
| Cooma ... | c | 46 | 35 | 0 |
| Eden.... | u | 52 | 47 | 0·38 |
| Gabo Isld | u | 54 | 49 | 0·80 |



# WEATHER MAP.

22 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 22 July.....17·071

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

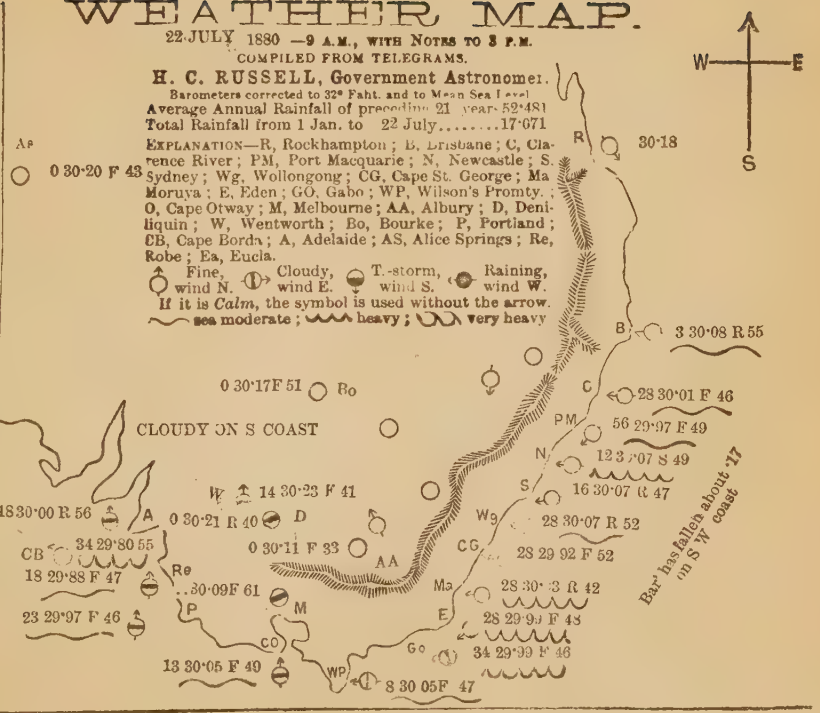
Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

W E S

| Stations | Wth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 69 | 31 | 0 |
| Tenterfi'ld | b | 62 | 15 | 0 |
| Grafton.. | b | 70 | 27 | 0 |
| Inverell.. | b | 55 | 21 | 0 |
| Bourke .. | b | 62 | 34 | 0 |
| Narrabri.. | | 57 | 32 | 0 |
| Armidale . | b | 47 | 26 | 0 |
| Bendemeer | b | 52 | 25 | 0 |
| Gunnedah | b | 62 | 59 | 0 |
| Coonab'an | b | 53 | 22 | 0 |
| P.Macqrie | b | 60 | 44 | 0 |
| Murr'undi | b | 53 | 38 | 0 |
| Cassilis.. | n | 53 | 35 | 0 |
| Mus'brook | b | 60 | 38 | 0 |
| Dubbo... | n | 54 | 34 | 0 |
| Mudgee.. | n | 64 | 30 | 0 |
| Maitland . | b | 59 | 44 | 0 |
| Newcastle | b | 66 | 47 | 0 |
| Orange .. | n | 45 | 28 | 0 |
| Bathurst.. | n | 50 | 29 | 0 |
| MtVictoria | n | 42 | 17 | 0 |
| Forbes.... | b | 65 | 28 | 0 |
| Eucla..... | | 58 | 44 | 0 |
| SYDNEY | b | 58 | 44 | 0 |
| Wentwth | u | 63 | 31 | 0 |
| Young.... | n | 51 | 32 | 0 |
| Wol'gong | b | 64 | 44 | 0 |
| Moss Vale | b | 51 | 33 | 0 |
| Easton.. | u | 65 | 39 | 0 |
| Goulburn. | n | 52 | 29 | 0 |
| Wagga... | b | 60 | 28 | 0 |
| Cape Geo. | b | 57 | .. | 0 |
| Queanb'an | nf | 56 | 27 | 0 |
| Deniliquin | u | 51 | 30 | 0 |
| Adelaide . | n | 58 | 25 | 0 |
| Boolla .. | b | 60 | 37 | 0 |
| Cooma... | n | 45 | 24 | 0 |
| Eden.... | c | 54 | 45 | 0 |
| Gabo Isld | u | 53 | 44 | 0 |



# WEATHER MAP.

23 JULY 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 23 July.....17·071

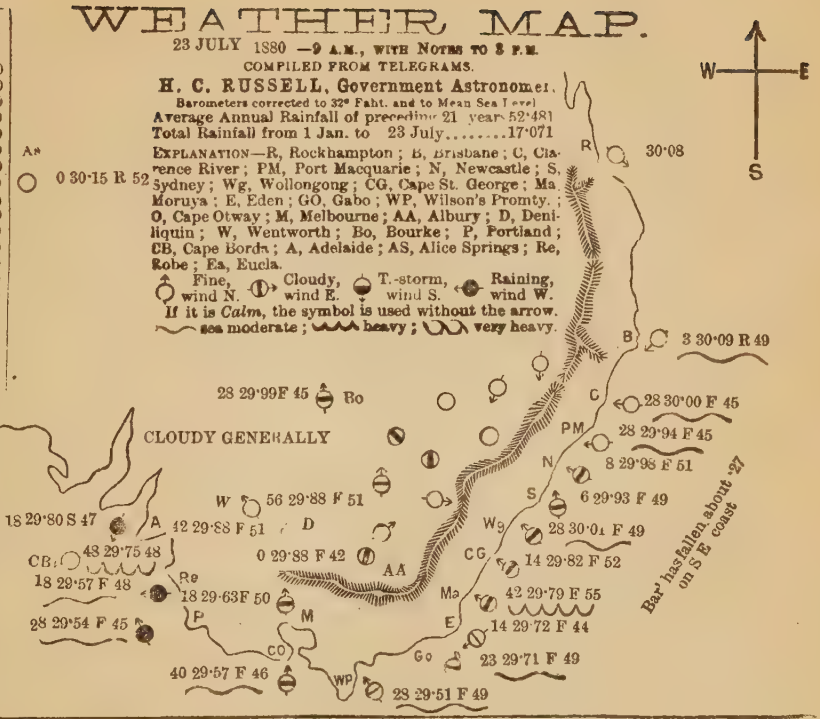
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 69 | 31 | 0 |
| Tenterfi'ld | b | 51 | 11 | 0 |
| Grafton.. | b | 69 | 32 | 0 |
| Inverell.. | b | 50 | 22 | 0 |
| Bourke .. | u | 69 | 38 | 0 |
| Narra'bri.. | | 58 | 33 | 0 |
| Armidale.. | n | 48 | 26 | 0 |
| Bendemeer | u | 51 | 23 | 0 |
| Gunnedah | u | 67 | 21 | 0 |
| Coonab'an | u | 57 | 25 | 0 |
| P.Macqrie | b | 61 | 35 | 0 |
| Murr'undi | c | 51 | 42 | 0 |
| Cassilis.. | u | 54 | 28 | 0 |
| Mus'brook | u | 60 | 41 | 0 |
| Dubbo... | u | 52 | 36 | 0 |
| Mudgee.. | n | 64 | 29 | 0 |
| Maitland . | u | 57 | 46 | 0 |
| Newcastle | u | 60 | 45 | 0 |
| Orange .. | u | 43 | 33 | 0 |
| Bathurst.. | u | 51 | 31 | 0 |
| MtVictoria | u | 47 | 21 | 0 |
| Forbes... | c | 68 | 33 | 0 |
| SYDNEY | u | 57 | 44 | 0 |
| Wentw'th | q | 59 | 33 | 0 |
| Young... | u | 51 | 37 | 0 |
| Woll'gong | c | 62 | 44 | 0 |
| Moss Vale | b | 46 | 37 | 0 |
| Euston.. | u | 65 | 42 | 0 |
| Goulburn. | b | 52 | 34 | 0 |
| Wagga... | c | 59 | 31 | 0 |
| Cape Geo. | b | 56 | .. | 0 |
| Queanb'an | n | 51 | 31 | 0 |
| Deniliquin | u | 57 | 36 | 0 |
| Albury... | u | 54 | 35 | 0 |
| Bodalla .. | n | 65 | 34 | 0 |
| Cooma... | n | 54 | 32 | 0 |
| Eden..... | u | 54 | 41 | 0 |
| Gabo Isld. | u | 54 | 42 | 0 |



# WEATHER MAP.

24 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 24 July.....17·071

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; Go, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

W E S

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 71 | 32 | 0 |
| Tenterfi'ld | b | 58 | 20 | 0 |
| Grafton.. | b | 68 | 34 | 0 |
| Inverell.. | b | 53 | 24 | 0 |
| Bourke .. | c | 64 | 36 | 0 |
| Narrabri.. | b | 60 | 42 | 0 |
| Armidale . | b | 51 | 28 | 0 |
| Bendemeer | b | 53 | 33 | 0 |
| Gunnedah | b | 65 | 29 | 0 |
| Coonab'an | b | 54 | 28 | 0 |
| P.Macqrie | b | 62 | 39 | 0 |
| Murr'undi | b | 51 | 49 | 0 |
| Cassilis.. | b | 54 | 33 | 0 |
| Mus'brook | b | 59 | 47 | 0 |
| Dubbo... | b | 54 | 37 | 0 |
| Mudgee.. | b | 56 | 30 | 0 |
| Maitland . | b | 59 | 42 | 0 |
| Newcastle | b | 58 | 43 | 0 |
| Orange .. | u | 45 | 34 | 0·15 |
| Bathurst.. | b | 52 | 34 | 0 |
| MtVictoria | c | 47 | 21 | 0 |
| Forbes... | b | 70 | 37 | 0 |
| Ea. | | | | |
| SYDNEY | b | 60 | 48 | 0 |
| Wentw'th | b | 58 | 33 | 0 |
| Young... | u | 52 | 40 | 0·13 |
| Woll'gong | b | 66 | 50 | 0 |
| Moss Vale | b | 53 | 35 | 0 |
| Euston... | b | 62 | 30 | 0 |
| Goulburn. | u | 55 | 35 | 0·24 |
| Wagga... | u | 57 | 39 | 0·16 |
| Cape Geo. | b | 56 | .. | 0 |
| Queanb'an | b | 53 | 35 | 0·07 |
| Deniliquin | b | 57 | 30 | 0 |
| Albury.... | u | 52 | 35 | 0·22 |
| Bodalla ... | u | 68 | 32 | 0 |
| Cooma.... | b | 52 | 31 | 0·03 |
| Eden..... | c | 57 | 42 | 0 |
| Gabo Isld. | b | 60 | 44 | 0 |

As

R 30·02

B 3 30·08 R 49

0 30·05 R 51 Ro

C 14 29·94 F 50

CLOUDY IN VICTORIA.

PM 14 29·83 F 47

N 5 29·99 R 52

S 8 29·96 R 50

W 28 30·05 R 43

A 14 30·26 30 D

Wg 28 29·98 F 51

14 29 99 R 43 AA

CG 14 29 88 R 46

CB

Re 13 30·04 R 44

Ma 14 29·87 R 41

P M

E 0 29·86 R 48

28 30·08 R 49

Bar' has risen about ·30 on S coast

CO

Go 40 29·77 R 47

40 30·00 R 51

WP 40 29·83 R 45

# WEATHER MAP.

26 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 26 July.....17·172

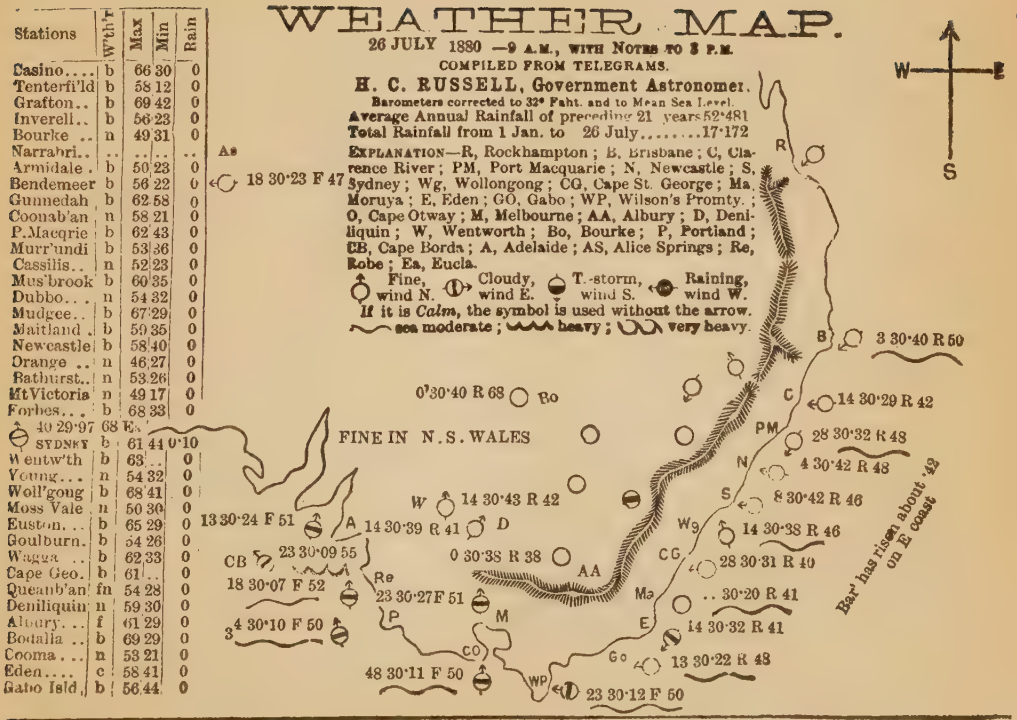
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Es, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

*If it is Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 66 | 30 | 0 |
| Tenterfi'ld | b | 58 | 12 | 0 |
| Grafton.. | b | 69 | 42 | 0 |
| Inverell.. | b | 56 | 23 | 0 |
| Bourke .. | n | 49 | 31 | 0 |
| Narrabri.. | .. | .. | .. | .. |
| Armidale . | b | 50 | 23 | 0 |
| Bendemeer | b | 56 | 22 | 0 |
| Gunnedah | b | 62 | 58 | 0 |
| Coonab'an | n | 58 | 21 | 0 |
| P.Macqrie | b | 62 | 43 | 0 |
| Murr'undi | b | 53 | 36 | 0 |
| Cassilis.. | n | 52 | 23 | 0 |
| Mus'brook | b | 60 | 35 | 0 |
| Dubbo... | n | 54 | 32 | 0 |
| Mudgee.. | b | 67 | 29 | 0 |
| Maitland . | b | 59 | 35 | 0 |
| Newcastle | b | 58 | 40 | 0 |
| Orange .. | n | 46 | 27 | 0 |
| Bathurst.. | n | 53 | 26 | 0 |
| MtVictoria | n | 49 | 17 | 0 |
| Forbes... | b | 68 | 33 | 0 |
| SYDNEY | b | 61 | 44 | 0·10 |
| Wentw'th | b | 63 | .. | 0 |
| Young... | n | 54 | 32 | 0 |
| Woll'gong | b | 68 | 41 | 0 |
| Moss Vale | n | 50 | 30 | 0 |
| Euston... | b | 65 | 29 | 0 |
| Goulburn. | b | 54 | 26 | 0 |
| Wagga .. | b | 62 | 33 | 0 |
| Cape Geo. | b | 61 | .. | 0 |
| Queanb'an | fn | 54 | 28 | 0 |
| Deniliquin | n | 59 | 30 | 0 |
| Albury... | f | 61 | 29 | 0 |
| Botalla .. | b | 69 | 29 | 0 |
| Cooma... | n | 53 | 21 | 0 |
| Eden.... | c | 58 | 41 | 0 |
| Gabo Isld. | b | 56 | 44 | 0 |



# WEATHER MAP.

27 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 27 July.....17·172

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 71 | 31 | 0 |
| Tenterfi'ld | b | 58 | 12 | 0 |
| Grafton.. | b | 72 | 37 | 0 |
| Inverell.. | b | 56 | 24 | 0 |
| Bourke .. | b | 72 | 39 | 0 |
| Narrabri.. | b | 62 | 43 | 0 |
| Armidale . | b | 54 | 21 | 0 |
| Bendemeer | b | 53 | 23 | 0 |
| Gunnedah | b | 71 | 20 | 0 |
| Coonab'an | b | 64 | 24 | 0 |
| P.Macqrie | b | 65 | 40 | 0 |
| Murr'undi | b | 55 | 43 | 0 |
| Cassilis.. | n | 59 | 28 | 0 |
| Mus'brook | b | 63 | 40 | 0 |
| Dubbo... | b | 54 | 36 | 0 |
| Mudgee.. | n | 61 | 33 | 0 |
| Maitland . | b | 58 | 39 | 0 |
| Newcastle | b | 65 | 44 | 0 |
| Orange .. | n | 46 | 31 | 0 |
| Bathurst.. | b | 57 | 29 | 0 |
| MtVictoria | u | 50 | 23 | 0 |
| Forbes... | c | 69 | 32 | 0 |
| 13 30·15 58 Ea | | | | |
| SYDNEY | u | 61 | 45 | 0 |
| Wentw'th | u | 66 | 47 | 0 |
| Young... | b | 55 | 41 | 0 |
| Woll'gong | u | 69 | 45 | 0 |
| Moss Vale | b | 52 | 34 | 0 |
| Euston... | u | 61 | 33 | 0 |
| Goulburn. | b | 55 | 34 | 0 |
| Wagga... | u | 62 | 36 | 0 |
| Cape Geo. | u | 59 | .. | 0 |
| Queanb'an | b | 52 | 32 | 0 |
| Deniliquin | u | 60 | 37 | 0 |
| Albury... | u | 57 | 39 | 0 |
| Bodalla .. | c | 68 | 38 | 0 |
| Cooma... | c | 57 | 39 | 0 |
| Eden..... | u | 59 | 41 | 0 |
| Gabo Isld. | u | 62 | 46 | 0 |

# WEATHER MAP.

28 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 28 July.....17·172

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 75 | 33 | 0 |
| Tenterfi'ld | b | 58 | 18 | 0 |
| Grafton.. | b | 74 | 37 | 0 |
| Inverell.. | b | 52 | 24 | 0 |
| Bourke .. | c | 68 | 42 | 0 |
| Narrabri.. | b | 63 | 36 | 0 |
| Armidale . | b | 52 | 31 | 0 |
| Bendemeer | b | 55 | 25 | c |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | u | 63 | 25 | 0 |
| P.Macqrie | b | 65 | 47 | 0 |
| Murr'undi | b | 58 | 50 | 0 |
| Cassilis.. | u | 63 | 38 | 0 |
| Mus'brook | u | 62 | 36 | 0 |
| Dubbo... | u | 59 | 41 | 0 |
| Mudgee.. | u | 65 | 40 | 0 |
| Maitland . | u | 68 | 50 | 0 |
| Newcastle | u | 69 | 43 | 0 |
| Orange .. | u | 50 | 38 | 0·03 |
| Bathurst.. | u | 59 | 35 | 0 |
| MtVictoria | .. | .. | .. | .. |
| Forbes... | c | 69 | 37 | 0 |
| SYDNEY | c | 67 | 51 | 0 |
| Wentwth | b | 67 | 49 | 0 |
| Young... | u | 58 | 48 | 0 |
| Woll'gong | u | 71 | 48 | 0 |
| Moss Vale | u | 56 | 43 | 0 |
| Euston... | b | 61 | 34 | 0 |
| Goulburn. | u | 58 | 45 | 0 |
| Wagga... | b | 65 | 41 | 0 |
| Cape Geo. | b | 56 | .. | 0 |
| Queanb'an | b | 58 | 43 | 0 |
| Deniliquin | b | 63 | 38 | 0 |
| Albury... | b | 56 | 35 | 0·01 |
| Bodalla .. | u | 75 | 39 | 0 |
| Cooma... | n | 58 | 31 | 0 |
| Eden.... | .. | .. | .. | .. |
| Gabo Isld | u | 69 | 47 | 0 |

CLOUDY GENERALLY

0 30·26 R 52

13 30·31 53 E

30·16 F 58 Bo

W 14 30·30 R 49

8 30·27 R 49 A 14 30·20 R 43 D

0 30·06 R 47

CB 18 30·21 53

3 56

13 30·11 R 49

13 30·10 R 46

13 30·06 R 47

R 30·20

B 18 30·19 R 52

C 14 30·13 F 58

PM 14 30·06 F 53

N 2 30·09 F 59

S 0 30·07 F 56

W 0 30·07 S 56

CG 28 29·99 S 54

Ma 28 30·01 R 57

E

Go 23 29·94 R 51

WP 28 29·94 R 48

Bar has risen about ·20 on S coast

N W E S

# WEATHER MAP.

29 JULY 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 29 July.....17·071

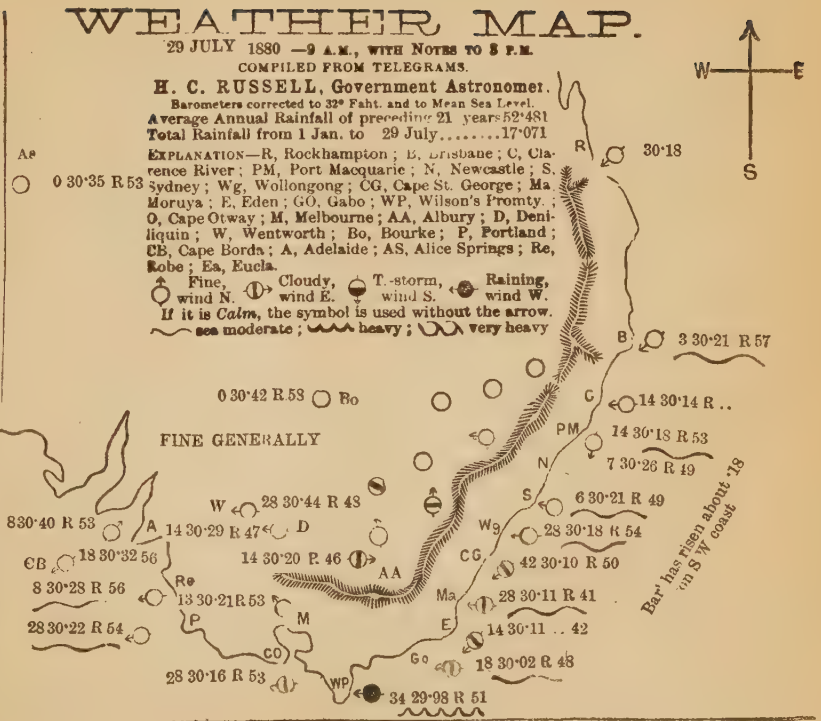
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 78 | 33 | 0 |
| Tenterfi'ld | b | 63 | 16 | 0 |
| Grafton.. | b | 73 | 39 | 0 |
| Inverell.. | b | 60 | 25 | 0 |
| Bourke .. | b | 71 | 35 | 0 |
| Narrabri.. | b | 67 | 38 | 0 |
| Armidale . | b | 57 | 27 | 0 |
| Bendemeer | b | 63 | 24 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 65 | 23 | 0 |
| P.Macqrie | b | 72 | 46 | 0 |
| Murr'undi | b | 57 | 39 | 0 |
| Cassilis.. | n | 59 | 24 | 0 |
| Mus'brook | b | 69 | 39 | 0 |
| Dubbo.. . | b | 56 | 35 | 0 |
| Mudgee.. | u | 62 | 27 | 0 |
| Maitland . | b | 60 | 44 | 0 |
| Newcastle | | 66 | 44 | 0·01 |
| Orange .. | b | 51 | 31 | 0 |
| Bathurst.. | u | 56 | 26 | 0 |
| MtVictoria | b | 52 | 21 | 0 |
| Forbes... | .. | .. | .. | .. |
| SYDNEY | u | 67 | 51 | 0 |
| Wentw'th | b | 65 | 31 | 0 |
| Young... | c | 58 | 35 | 0 |
| Woll'gong | b | 69 | 45 | 0 |
| Moss Vale | c | 54 | 34 | 0 |
| Euston... | b | 73 | 36 | 0 |
| Goulburn. | b | 58 | 31 | 0 |
| Wagga... | b | 65 | 35 | 0 |
| Cape Geo. | b | 64 | .. | 0·07 |
| Queanb'an | c | 59 | 30 | 0 |
| Deniliquin | b | 60 | 38 | 0 |
| Albury... | b | 61 | 31 | 0·03 |
| Bodalla .. | u | 67 | 26 | 0 |
| Cooma... | n | 53 | 37 | 0 |
| Eden..... | u | 65 | 59 | 0 |
| Gabo Isld | c | 57 | 44 | 0 |



# WEATHER MAP.

30 JULY 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 30 July.....17·071

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 74 | 46 | 0 |
| Tenterfi'ld | b | 65 | 23 | 0 |
| Grafton.. | b | 75 | 38 | 0 |
| Inverell.. | b | 58 | 20 | 0 |
| Bourke .. | b | 69 | 36 | 0 |
| Narrabri.. | b | 63 | 37 | 0 |
| Armidale . | b | 54 | 24 | 0 |
| Bendemeer | b | 57 | 24 | 0 |
| Gunnedah | b | 76 | 22 | 0 |
| Coonab'an | b | 61 | 22 | 0 |
| P.Macqrie | c | 65 | 44 | 0 |
| Murr'undi | b | 56 | 31 | 0 |
| Cassilis.. | n | 59 | 23 | 0 |
| Mus'brook | b | 64 | 34 | 0 |
| Dubbo... | b | 58 | 35 | 0 |
| Mudgee.. | n | 68 | 28 | 0 |
| Maitland . | b | 63 | 36 | 0 |
| Newcastle | | 64 | 40 | 0 |
| Orange ... | h | 49 | 31 | 0 |
| Bathurst.. | n | 52 | 24 | 0 |
| Mt Victoria | b | 52 | 22 | 0 |
| Forbes... | b | 71 | 35 | 0 |
| SYDNEY | b | 61 | 42 | 0 |
| Wentw'th | b | 68 | 33 | 0 |
| Young... | b | 54 | 33 | 0 |
| Woll'gong | b | 67 | 49 | 0 |
| Moss Vale | n | 51 | 33 | 0 |
| Euston. .. | b | 71 | 31 | 0 |
| Goulburn. | b | 53 | 27 | 0 |
| Wagga... | b | 62 | 34 | 0 |
| Cape Geo. | b | 63 | .. | 0 |
| Queanb'an | n | 58 | 28 | 0 |
| Deniliquin | n | 61 | 33 | 0 |
| Albury... | n | 59 | 31 | 0 |
| Bodalla .. | b | 67 | 27 | 0 |
| Cooma... | n | 54 | 21 | 0 |
| Eden.... | b | 59 | 41 | 0 |
| Gabo Isld | b | .. | 45 | 0 |

As 0 30·22 S 58

Ea 28 29·84 66

0 30·28 F 52 Bo

FINE GENERALLY

13 30·21 F 55

W .. 30·39 F 46

A 14 30·35 R 40 D

CB 23 30·08 56

0 30·31 P 36 AA

18 30·11 F 53

Re 18 30·26F 51

18 30·19 F 49

P M

CO

8 30·22 F 49

WP 23 30·15 R 51

E 14 30·27 R 46

Go 18 30·18 R 51

Ma 28 30·24 R 41

CG 14 30·17 R 49

Wg 0 30·35 R 48

S 8 30·37 R 46

N 5 30·39 R 47

PM 28 30·21 R 50

C 14 30·23 R ..

B 18 30·33 R 57

R 30·23

Bar' has fallen about ·19 on S.W. coast

W E S

# WEATHER MAP.

31 JULY 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 31 July.....17·072

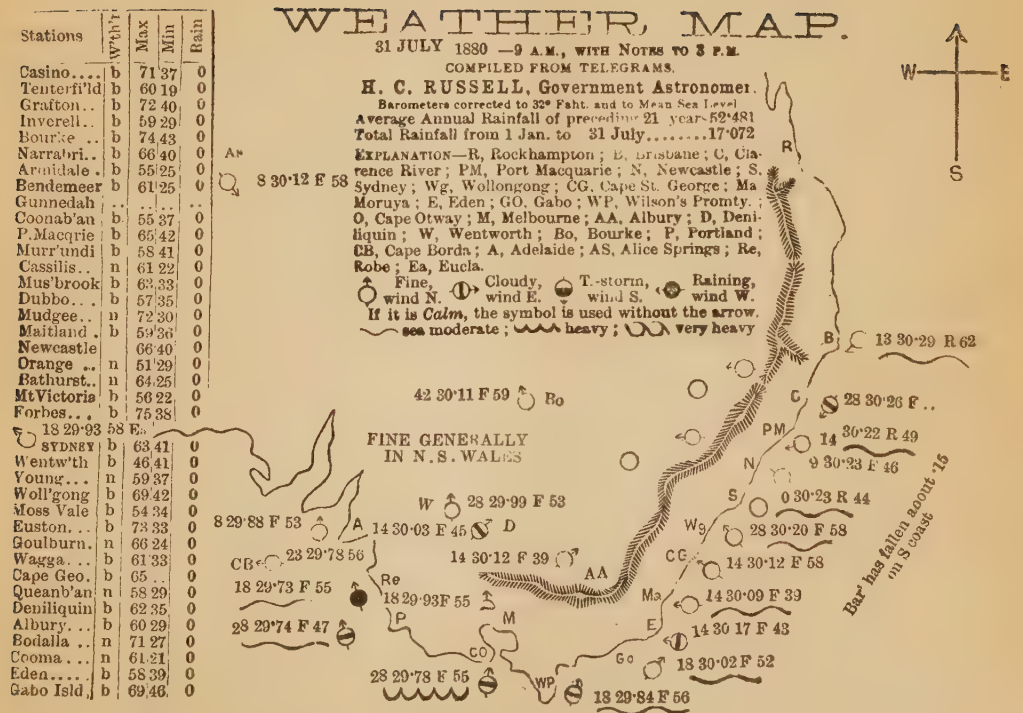
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 71 | 37 | 0 |
| Tenterfi'ld | b | 60 | 19 | 0 |
| Grafton.. | b | 72 | 40 | 0 |
| Inverell.. | b | 59 | 29 | 0 |
| Bourke .. | b | 74 | 43 | 0 |
| Narrabri.. | b | 66 | 40 | 0 |
| Armidale . | b | 55 | 25 | 0 |
| Bendemeer | b | 61 | 25 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | b | 55 | 37 | 0 |
| P.Macqrie | b | 65 | 42 | 0 |
| Murr'undi | b | 58 | 41 | 0 |
| Cassilis.. | n | 61 | 22 | 0 |
| Mus'brook | b | 62 | 33 | 0 |
| Dubbo... | b | 57 | 35 | 0 |
| Mudgee.. | n | 72 | 30 | 0 |
| Maitland . | b | 59 | 36 | 0 |
| Newcastle | | 66 | 40 | 0 |
| Orange .. | n | 51 | 29 | 0 |
| Bathurst.. | n | 64 | 25 | 0 |
| MtVictoria | b | 56 | 22 | 0 |
| Forbes.. , | b | 75 | 38 | 0 |
| SYDNEY | b | 63 | 41 | 0 |
| Wentw'th | b | 46 | 41 | 0 |
| Young... | n | 59 | 37 | 0 |
| Woll'gong | b | 69 | 42 | 0 |
| Moss Vale | b | 54 | 34 | 0 |
| Euston... | b | 73 | 33 | 0 |
| Goulburn. | n | 66 | 24 | 0 |
| Wagga... | b | 61 | 33 | 0 |
| Cape Geo. | b | 65 | .. | 0 |
| Queanb'an | n | 58 | 29 | 0 |
| Deniliquin | b | 62 | 35 | 0 |
| Albury... | b | 60 | 29 | 0 |
| Bodalla .. | n | 71 | 27 | 0 |
| Cooma... | n | 61 | 21 | 0 |
| Eden..... | b | 58 | 39 | 0 |
| Gabo Isld | b | 69 | 46 | 0 |



# WEATHER MAP.

2 AUGUST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 2 August.....17·658

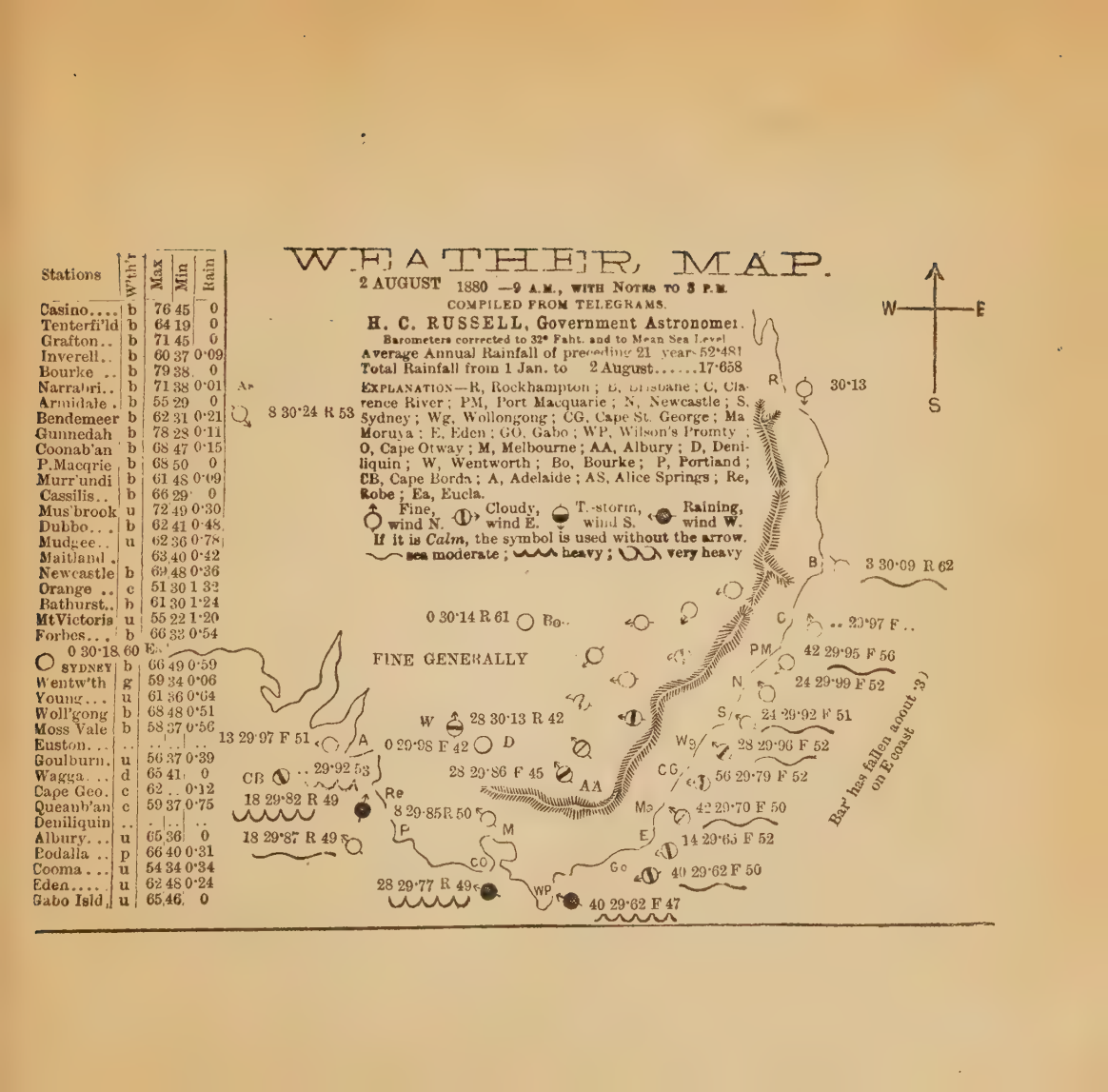
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 76 | 45 | 0 |
| Tenterfi'ld | b | 64 | 19 | 0 |
| Grafton.. | b | 71 | 45 | 0 |
| Inverell.. | b | 60 | 37 | 0·09 |
| Bourke .. | b | 79 | 38 | 0 |
| Narrabri.. | b | 71 | 38 | 0·01 |
| Armidale . | b | 55 | 29 | 0 |
| Bendemeer | b | 62 | 31 | 0·21 |
| Gunnedah | b | 78 | 28 | 0·11 |
| Coonab'an | b | 68 | 47 | 0·15 |
| P.Macqrie | b | 68 | 50 | 0 |
| Murr'undi | b | 61 | 48 | 0·09 |
| Cassilis.. | b | 66 | 29 | 0 |
| Mus'brook | u | 72 | 49 | 0·30 |
| Dubbo... | b | 62 | 41 | 0·48 |
| Mudgee.. | u | 62 | 36 | 0·78 |
| Maitland . | | 63 | 40 | 0·42 |
| Newcastle | b | 69 | 48 | 0·36 |
| Orange .. | c | 51 | 30 | 1·32 |
| Bathurst.. | b | 61 | 30 | 1·24 |
| MtVictoria | u | 55 | 22 | 1·20 |
| Forbes... | b | 66 | 32 | 0·54 |
| SYDNEY | b | 66 | 49 | 0·59 |
| Wentw'th | g | 59 | 34 | 0·06 |
| Young... | u | 61 | 36 | 0·64 |
| Woll'gong | b | 68 | 48 | 0·51 |
| Moss Vale | b | 58 | 37 | 0·56 |
| Euston... | .. | .. | .. | .. |
| Goulburn. | u | 56 | 37 | 0·39 |
| Wagga... | d | 65 | 41 | 0 |
| Cape Geo. | c | 62 | .. | 0·12 |
| Queanb'an | c | 59 | 37 | 0·75 |
| Deniliquin | .. | .. | .. | .. |
| Albury... | u | 65 | 36 | 0 |
| Bodalla .. | p | 66 | 40 | 0·31 |
| Cooma... | u | 54 | 34 | 0·34 |
| Eden.... | u | 62 | 48 | 0·24 |
| Gabo Isld. | u | 65 | 46 | 0 |



# WEATHER MAP.

3 AUGUST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 3 August.....17·658

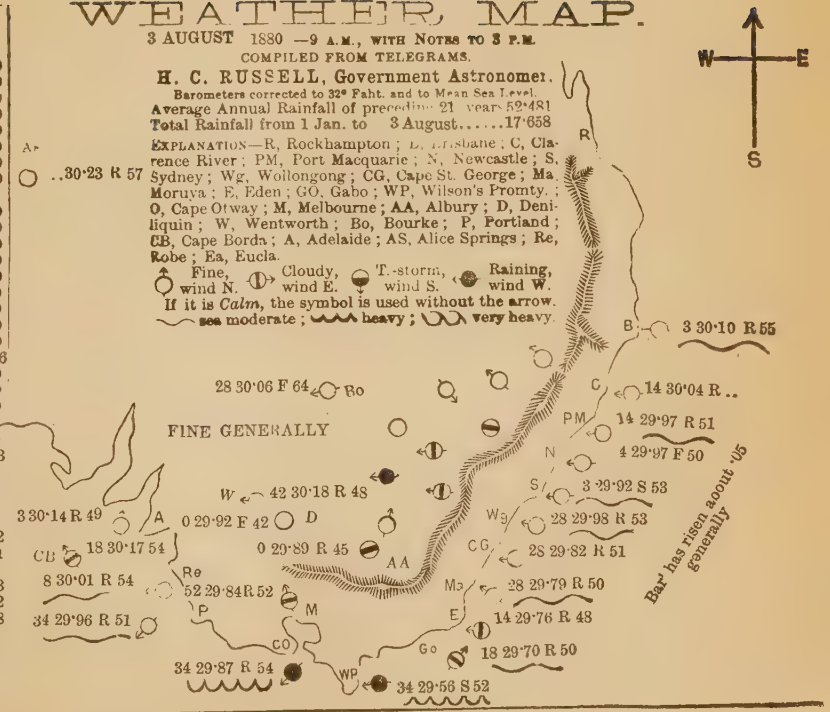
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 77 | 32 | 0 |
| Tenterfi'ld | b | 58 | 16 | 0 |
| Grafton.. | b | 78 | 46 | 0 |
| Inverell.. | b | 60 | 24 | 0 |
| Bourke .. | b | 71 | 64 | 0 |
| Narrabri.. | b | 62 | 41 | 0 |
| Armidale . | b | 55 | 28 | 0 |
| Bendemeer | b | 56 | 29 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 56 | 30 | 0 |
| P.Macqrie | b | 68 | 46 | 0 |
| Murr'undi | b | 53 | 38 | 0 |
| Cassilis.. | b | 54 | 36 | 0 |
| Mus'brook | b | 61 | 46 | 0 |
| Dubbo... | | 55 | 42 | 0 |
| Mudgee.. | u | 63 | 41 | 0 |
| Maitland . | b | 68 | 47 | 0 |
| Newcastle | b | 63 | 49 | 0 |
| Orange .. | u | 44 | 36 | 0·16 |
| Bathurst.. | u | 49 | 36 | 0 |
| MtVictoria | u | 42 | .. | 0 |
| Forbes... | b | 69 | 35 | 0 |
| SYDNEY | b | 68 | 50 | 0 |
| Wentw'th | b | 59 | 38 | 0·33 |
| Young... | p | 50 | 42 | 0 |
| Woll'gong | c | 68 | 45 | 0 |
| Moss Vale | b | 48 | 37 | 0 |
| Euston... | u | 69 | 35 | 0 |
| Goulburn. | u | 48 | 36 | 0·02 |
| Wagga... | u | 54 | 41 | 0·21 |
| Cape Geo. | b | 59 | .. | 0 |
| Queanb'an | c | 49 | 37 | 0·03 |
| Deniliquin | b | 56 | 37 | 0·12 |
| Albury... | u | 57 | 39 | 0·18 |
| Bodalla .. | n | 64 | 34 | 0 |
| Cooma... | n | 52 | 27 | 0 |
| Eden..... | u | 59 | 42 | 0 |
| Gabo Isld. | u | 58 | 46 | 0 |



# WEATHER MAP.

4 AUGUST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 4 August.....17·660

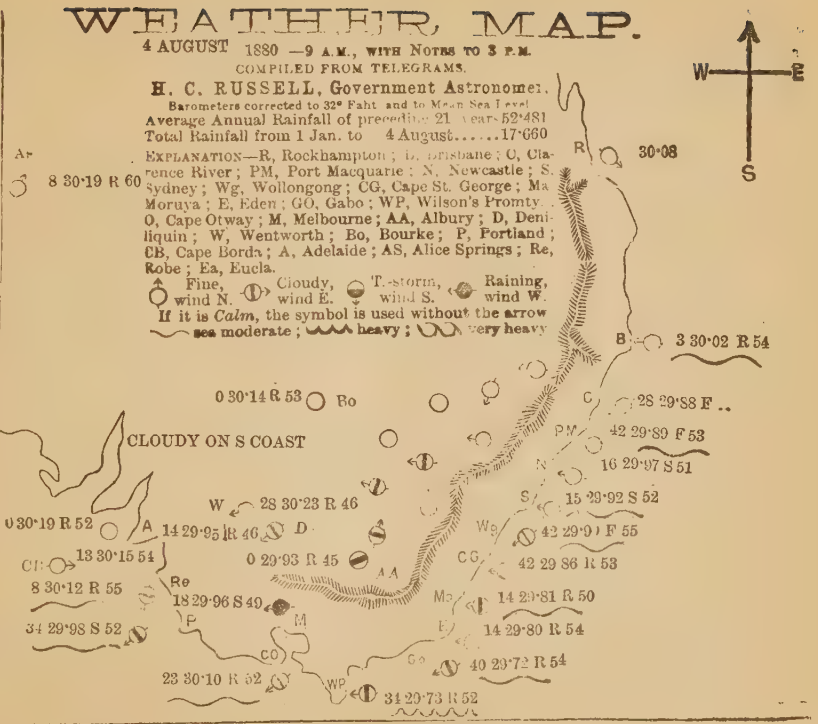
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promtry. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

| Stations | Wthr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 74 | 32 | 0 |
| Tenterfi'ld | .. | .. | .. | . |
| Grafton.. | b | 73 | 39 | 0 |
| Inverell.. | b | 57 | 22 | 0 |
| Bourke .. | b | 65 | 35 | 0 |
| Narrabri.. | b | 63 | 25 | 0 |
| Armidale . | b | 51 | 18 | 0 |
| Bendemeer | b | 52 | 24 | 0 |
| Gunnedah | b | 72 | 24 | 0 |
| Coonab'an | b | 57 | 25 | 0 |
| P.Macqrie | b | 65 | 44 | 0 |
| Murr'undi | b | 56 | 45 | 0 |
| Cassilis.. | b | 57 | 32 | 0 |
| Mus'brook | | 65 | 35 | 0 |
| Dubbo.. . | n | 56 | 36 | 0 |
| Mudgee.. | b | 62 | 41 | 0 |
| Maitland . | b | 62 | 48 | 0 |
| Newcastle | b | 65 | 47 | 0 |
| Orange .. | b | 52 | 45 | 0·09 |
| Bathurst.. | u | 48 | 40 | 0·05 |
| MtVictoria | b | 51 | 23 | 0 |
| Forbes... | b | 73 | 37 | .0 |
| SYDNEY | b | 61 | 50 | 0 |
| Wentw'th | b | 60 | 34 | 9 |
| Young... | u | 52 | 40 | 0·03 |
| Woll'gong | c | 67 | 50 | 0 |
| Moss Vale | b | 59 | 28 | 0 |
| Euston.. | b | 61 | 34 | 0 |
| Goulburn. | b | 52 | 38 | 0 |
| Wagga .. | u | 54 | 40 | 0 |
| Cape Geo. | b | 62 | .. | 0 |
| Queanb'an | b | 53 | 40 | 0 |
| Deniliquin | u | 57 | 39 | 0 |
| Albury... | u | 50 | 37 | 0·04 |
| Bodalla .. | c | 70 | 35 | 0·05 |
| Cooma... | c | 51 | 33 | 0 |
| Eden.... | b | 55 | 48 | 0·12 |
| Gabo Isld | c | 55 | 47 | 0·37 |



# WEATHER MAP.

5 AUGUST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 59·483

Total Rainfall from 1 Jan. to 5 August.....17·662

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

W E S

| Stations | Wthr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 73 | 36 | 0 |
| Tenterfi'ld | b | 57 | 35 | 0 |
| Grafton.. | b | 78 | 39 | 0 |
| Inverell.. | b | 56 | 22 | 0 |
| Bourke .. | b | 70 | 36 | 0 |
| Narrabri.. | b | 64 | 35 | 0 |
| Armidale . | u | 51 | 32 | 0 |
| Bendemeer | u | 51 | 38 | 0 |
| Gunnedah | b | 71 | 28 | 0 |
| Coonab'an | b | 60 | 36 | 0 |
| P.Macqrie | b | 64 | 45 | 0 |
| Murr'undi | b | 54 | 44 | 0·10 |
| Cassilis.. | b | 56 | 37 | 0 |
| Mus'brook | | 63 | 46 | 0 |
| Dubbo... | b | 56 | 42 | 0 |
| Mudgee.. | u | 65 | 44 | 0 |
| Maitland . | u | 60 | 48 | 0 |
| Newcastle | b | 65 | 45 | 0 |
| Orange .. | u | 47 | 44 | 0 |
| Bathurst.. | u | 47 | 44 | 0·04 |
| Mt Victoria | u | 48 | 22 | 0·94 |
| Forbes... | u | 70 | 33 | 0 |
| Ea 28 29·73 67 Re | | | | |
| SYDNEY | b | 63 | 48 | 0 |
| Wentw'th | b | 63 | 33 | 0 |
| Young... | u | 53 | 43 | 0 |
| Woll'gong | u | 68 | 51 | 0 |
| Moss Vale | u | 51 | 38 | 0 |
| Euston.. | n | 67 | 32 | 0 |
| Goulburn. | u | 54 | 38 | 0·05 |
| Wagga... | b | 76 | 44 | 0·06 |
| Cape Geo. | .. | .. | .. | .. |
| Queanb'an | c | 53 | 34 | 0 |
| Deniliquin | b | 59 | 34 | 0 |
| Albury... | b | 58 | 33 | 0·10 |
| Bodalla .. | c | 68 | 39 | 0 |
| Cooma... | c | 56 | 33 | 0·02 |
| Eden.... | p | 60 | 47 | 0·34 |
| Gabo Isld | p | 59 | 48 | 0·82 |

As 0 30·16 R 51

R 30·03

B 3 29·91 R 67

0 30·07 F 53 Bo

C 28 29·74 F ..

PM 56 29·77 F 63

N 6 29·85 F 53

S 23 29·81 F 52

FINE GENERALLY

W 28 30·25 R 41

0 30·04 F 53 A

0 30·07 R 43 D

Wg 56 29·81 F 55

0 29·95 R 38

CG 56 29 67 E 56

CB 23 30·05 54

AA

0 30·13 R 51

Re 8 30·07 R 51

Ma 14 29·81 S 53

P M

E 28 29·85 R 53

18 30·13.. 54

CO

Go 40 29·85 R 54

8 30·11 R 53

WP 18 29·93 R 51

Bar' has fallen on E coast & Risen to S W

# WEATHER, MAP.

6 AUGUST 1880 —9 A.M., WITH NOTES TO 3 P.M:

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 6 August.... ...17·662

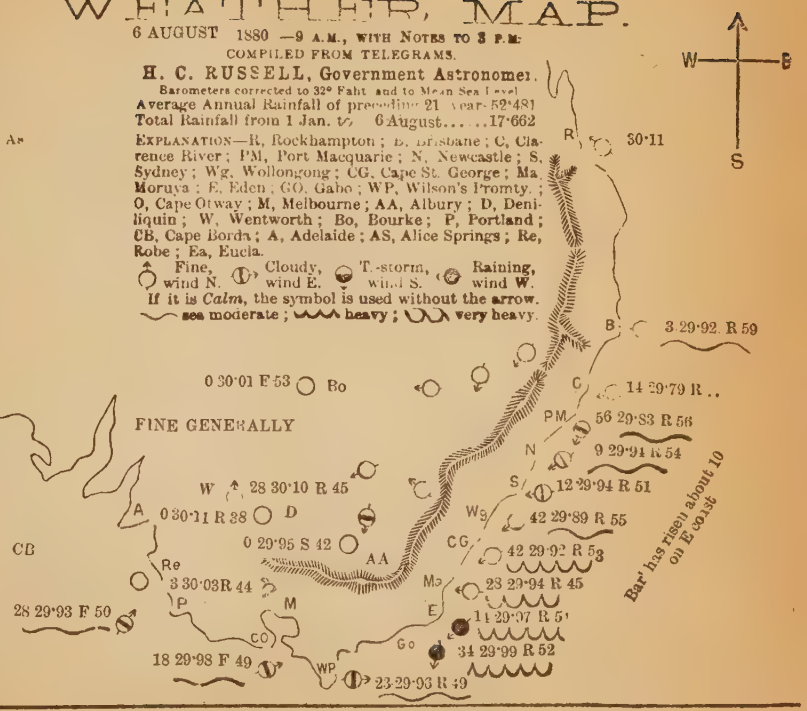
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 72 | 31 | 0 |
| Tenterfi'ld | b | 54 | 14 | 0 |
| Grafton.. | b | 70 | 43 | 0 |
| Inverell.. | b | 57 | 26 | 0 |
| Bourke .. | b | 69 | 33 | 0 |
| Narrabri.. | b | 63 | 35 | 0 |
| Armidale . | b | 50 | 37 | 0 |
| Bendemeer | b | 53 | 34 | 0 |
| Gunnedah | b | 58 | 25 | 0 |
| Coonab'an | b | 60 | 27 | 0 |
| P.Macqrie | c | 63 | 51 | 0 |
| Murr'undi | b | 54 | 47 | 0 |
| Cassilis.. | n | 57 | 27 | 0 |
| Mus'brook | | 64 | 41 | 0 |
| Dubbo.... | n | 57 | 37 | 0 |
| Mudgee.. | b | 65 | 33 | 0 |
| Maitland . | b | 61 | 48 | 0 |
| Newcastle | u | 63 | 50 | 0 |
| Orange .. | n | 48 | 33 | 0·03 |
| Bathurst.. | b | 5[illegible] | 32 | 0 |
| Mt Victoria | b | 48.. | .. | 0·67 |
| Forbes... | b | 71 | 35 | 0 |
| SYDNEY | b | 59 | 48 | 0 |
| Wentw'th | b | 64 | 34 | 0 |
| Young... | b | 57 | 36 | 0 |
| Woll'gong | b | 62 | 49 | 0 |
| Moss Vale | b | 51 | 38 | 0·10 |
| Euston... | b | 65 | 30 | 0 |
| Goulburn. | n | 60 | 29 | 0 |
| Wagga .. | b | 64 | 31 | 0 |
| Cape Geo. | b | 56 | .. | 0 |
| Queanb'an | b | 54 | 38 | 0 |
| Deniliquin | b | 61 | 30 | 0 |
| Albury... | b | 62 | 31 | 0 |
| Bodalla .. | b | 63 | 42 | 0 |
| Cooma... | c | 47 | 36 | 0·08 |
| Eden..... | p | 56 | 47 | 0·27 |
| Gabo Isld | p | 56 | 50 | 0·32 |



# WEATHER MAP.

7 AUGUST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 7 August.....17·666

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

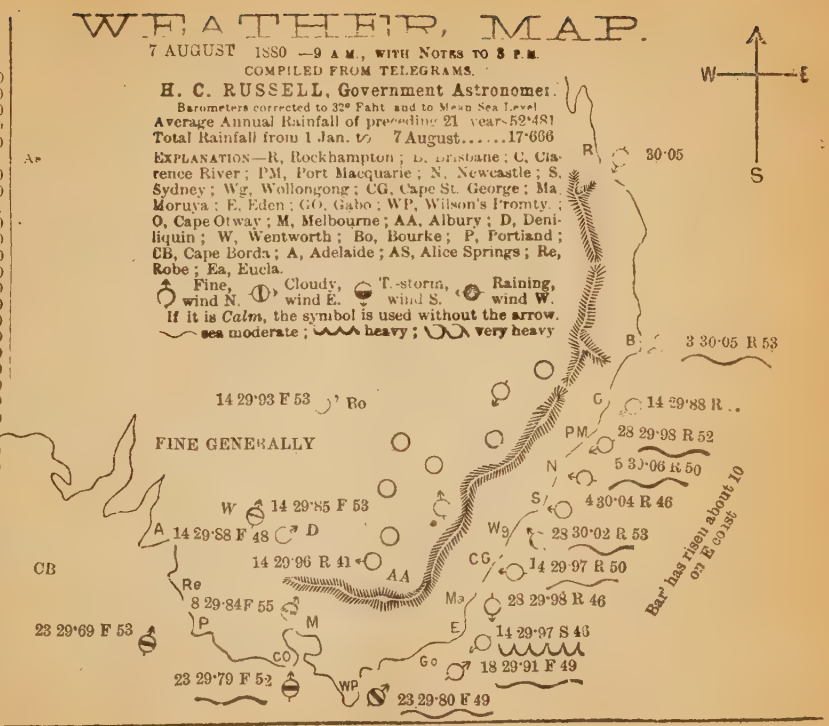
Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

W E S

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 74 35 | | 0 |
| Tenterfi'ld | b | 59 15 | | 0 |
| Grafton.. | b | 76 40 | | 0 |
| Inverell. | b | 56 20 | | 0 |
| Bourke .. | b | 74 33 | | 0 |
| Narrabri.. | .. | .. | .. | .. |
| Armidale . | b | 52 25 | | 0 |
| Bendemeer | b | 58 25 | | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | b | 63 21 | | 0 |
| P.Macqrie | b | 65 45 | | 0 |
| Murr'undi | | 58 39 | | 0 |
| Cassilis.. | n | 61 24 | | 0 |
| Mus'brook | b | 65 39 | | 0 |
| Dubbo.. . | b | 59 35 | | 0 |
| Mudgee.. | n | 71 32 | | 0 |
| Maitland . | b | 63 39 | | 0 |
| Newcastle | b | 62 44 | | 0 |
| Orange .. | b | 49 32 | | 0 |
| Bathurst.. | b | 57 26 | | 0 |
| MtVictoria | n | 54 30 | | 0 |
| Forbes... | b | 74 38 | | 0 |
| SYDNEY | b | 59 43 | | 0 |
| W'entw'th | b | 68 41 | | 0 |
| Young... | n | 59 35 | | 0 |
| Woll'gong | b | 65 40 | | 0 |
| Moss Vale | b | 52 33 | | 0 |
| Euston.. | u | 75 39 | | 0 |
| Goulburn. | n | 59 25 | | 0 |
| Wagga:.. | b | 62 35 | | 0 |
| Cape Geo. | b | 65 | .. | 0 |
| Queanb'an | b | 57 29 | | 0 |
| Deniliquin | b | 63 34 | | 0 |
| Albury.. | b | 62 33 | | 0 |
| Bodalla .. | b | 67 35 | | 0 |
| Cooma... | c | 53 22 | | 0 |
| Eden..... | b | 56 29 | | 0 |
| Gabo Isld. | b | 55.42. | | 0 |



# WEATHER MAP.

9 AUGUST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 Years 52·481

Total Rainfall from 1 Jan. to 9 August.....17·666

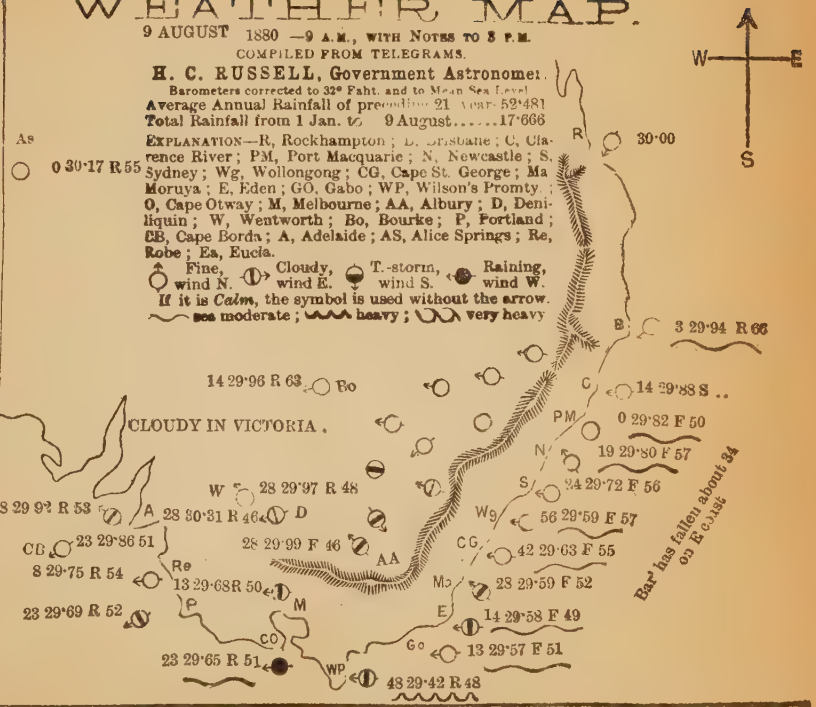
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 79 | 37 | 0 |
| Tenterfi'ld | b | 55 | 17 | 0 |
| Grafton.. | b | 77 | 47 | 0 |
| Inverell.. | b | 63 | 25 | 0 |
| Bourke .. | b | 73 | 39 | 0 |
| Narrabri.. | b | 68 | 39 | 0 |
| Armidale . | b | 58 | 25 | 0 |
| Bendemeer | b | 64 | 34 | 0 |
| Gunnedah | b | 75 | 21 | 0 |
| Coonab'an | b | 62 | 28 | 0 |
| P.Macqrie | b | 68 | 43 | 0 |
| Murr'undi | | 62 | 45 | 0 |
| Cassilis.. | b | 68 | 37 | 0 |
| Mus'brook | u | 69 | 50 | 0 |
| Dubbo... | b | 58 | 37 | 0 |
| Mudgee.. | b | 68 | 33 | 0 |
| Maitland . | b | 64 | 38 | 0 |
| Newcastle | b | 71 | 49 | 0 |
| Orange .. | u | 51 | 43 | 0 |
| Bathurst.. | b | 60 | 30 | 0 |
| MtVictoria | c | 54 | 31 | 0 |
| Forbes... | b | 68 | 37 | 0 |
| 13 30·09 57 E. | | | | |
| SYDNEY | b | 67 | 53 | 0 |
| Wentw'th | b | 65 | 42 | 0·09 |
| Young... | u | 62 | 41 | 0·12 |
| Woll'gong | b | 71 | 54 | 0 |
| Moss Vale | b | 55 | 38 | 0 |
| Euston... | b | 68 | 40 | 0·12 |
| Goulburn. | u | 58 | 37 | 0·13 |
| Wagga... | u | 65 | 40 | 0·09 |
| Cape Geo. | b | 66 | .. | 0 |
| Queanb'an | c | 57 | 32 | 0·23 |
| Deniliquin | u | 65 | 40 | 0·02 |
| Albury... | c | 64 | 36 | 0·21 |
| Bodalla .. | n | 70 | 34 | 0 |
| Cooma... | u | 57 | 35 | 0·06 |
| Eden.... | u | 59 | 45 | 0 |
| Gabo Isld. | b | 62 | 46 | 0 |



# WEATHER MAP.

10 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 10 August... ...17·696

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino..... | b | 77 32 | | 0 |
| Tenterfi'ld | b | 58 19 | | 0 |
| Grafton.. | b | 78 37 | | 0 |
| Inverell.. | b | 58 25 | | 0 |
| Bourke .. | c | 73 40 | | 0 |
| Narrabri.. | c | 61 37 | | 0 |
| Armidale . | b | 59 35 | | 0 |
| Bendemeer | u | 54 23 | | 0 |
| Gunnedah | r | 75 24 | | 0 |
| Coonab'an | u | 61 25 | | 0 |
| P.Macqrie | m | 70 39 | | 0 |
| Murr'undi | u | 59 42 | | 0 |
| Cassilis.. | u | 62 38 | | 0 |
| Mus'brook | u | 66 45 | | 0 |
| Dubbo.... | u | 59 41 | | 0 |
| Mudgee.. | u | 64 31 | | 0 |
| Maitland . | b | 64 43 | | 0 |
| Newcastle | b | 69 45 | | 0 |
| Orange .. | u | 48 33 | | 0 |
| Bathurst.. | u | 51 34 | | 0 |
| MtVictoria | b | 53 36 | | 0 |
| Forbes.... | u | 66 38 | | 0 |
| Sydney | c | 63 48 | | 0 |
| Wentw'th | u | 64 45 | | 0 |
| Young.... | u | 53 38 | 0·07 | |
| Woll'gong | b | 66 45 | | 0 |
| Moss Vale | u | 50 38 | | 0 |
| Euston... | u | 66 44 | | 0 |
| Goulburn. | u | 51 33 | 0·02 | |
| Wagga... | u | 57 38 | 0·12 | |
| Cape Geo. | b | 62 .. | | 0 |
| Queanb'an | c | 52 39 | 0·05 | |
| Deniliquin | b | 58 39 | 0·05 | |
| Albury... | r | 55 39 | 0·05 | |
| Bodalla ... | n | 63 33 | | 0 |
| Cooma... | c | 56 32 | | 0 |
| Eden..... | c | 58 40 | | 0 |
| Gabo Isld. | b | 60 44 | | 0 |

CLOUDY IN VICTORIA & N.S. WALES

As 0 30·26 R 53

23 30·21 54 E..

23 29 81 R 52

28 29·90 F 56 Bo

W 42 29·86 F 50

A 28 29·72 F 46 D

CB 40 29·77 50

14 29·70 F 45 AA

Re 13 29·54 F 53

P M

23 29·48 R 52

CO 18 29·48 F 47

WP 18 29·42 F 49

Go 18 29·63 R 49

E 14 29·63 R 44

Ma 14 29·73 R 47

CG 42 29 66 R 54

Wg 28 29·77 R 51

S 8 29·80 R 54

N 6 29·87 R 52

PM 14 29·86 P 48

C 14 29·88 S ..

B 18 30·00 R 52

R 29·99

W E S

Bar^r has fallen about 16 on S coast

# WEATHER MAP.

11 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 11 August.....17·666

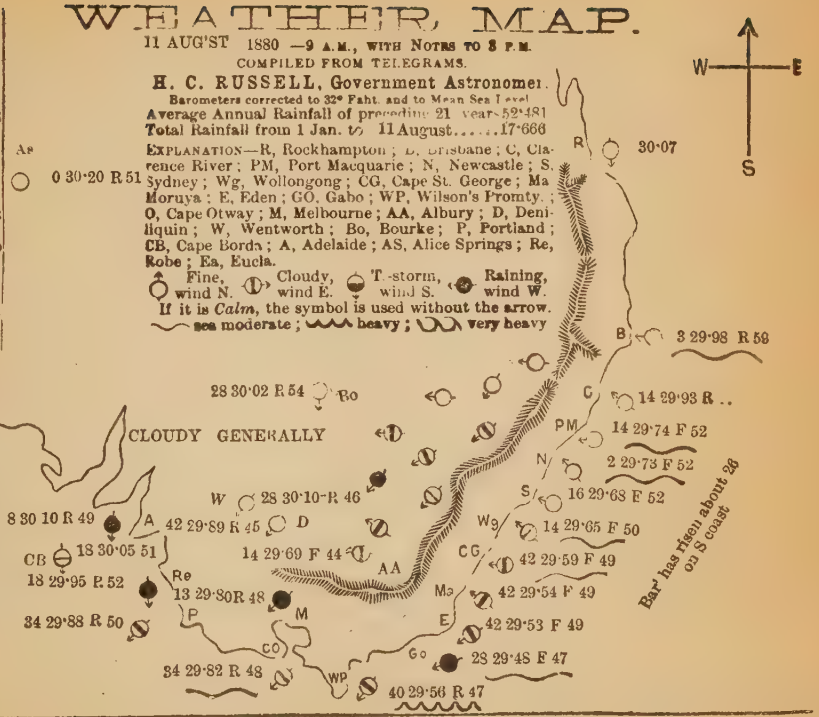
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 75 | 43 | 0 |
| Tenterfi'ld | b | 58 | 25 | 0 |
| Grafton.. | b | 74 | 44 | 0 |
| Inverell.. | b | 61 | 22 | 0·06 |
| Bourke .. | b | 64 | 42 | 0 |
| Narrabri.. | b | 62 | 42 | 0 |
| Armidale . | b | 53 | 25 | 0 |
| Bendemeer | u | 51 | 28 | 0 |
| Gunnedah | b | 67 | 27 | 0 |
| Coonab'an | u | 60 | 39 | 0·03 |
| P.Macqrie | b | 62 | 42 | 0 |
| Murr'undi | p | 54 | 49 | 0·09 |
| Cassilis.. | b | 59 | 38 | 0 |
| Mus'brook | c | 65 | 50 | 0 |
| Dubbo... | u | 59 | 43 | 0 |
| Mudgee.. | b | 54 | 41 | 0·43 |
| Maitland . | b | 62 | 48 | 0 |
| Newcastle | b | 61 | 49 | 0 |
| Orange .. | d | 49 | 32 | 0·55 |
| Bathurst.. | u | 53 | 37 | 0·26 |
| MtVictoria | s | 52 | 31 | 0·08 |
| Forbes... | u | 62 | 40 | 0 |
| 13 30·13 57 Ea | | | | |
| SYDNEY | b | 62 | 50 | 0 |
| Wentw'th | b | 58 | 39 | 0 |
| Young... | p | 53 | 41 | 0·21 |
| Woll'gong | u | 66 | 45 | 0 |
| Moss Vale | u | 52 | 35 | 0·08 |
| Euston... | b | 66 | 40 | 0·03 |
| Goulburn. | p | 55 | 35 | 0·20 |
| Wagga... | i | 56 | 40 | 0·22 |
| Cape Geo. | c | 63 | .. | 0 |
| Queanb'an | c | 50 | 37 | 0·24 |
| Deniliquin | b | 58 | 38 | 0·07 |
| Albury... | b | 54 | 39 | 0·52 |
| Bodalla .. | u | 59 | 32 | 0 |
| Cooma... | c | 49 | 33 | 0 |
| Eden.... | u | 54 | 42 | 0 |
| Gabo Isld. | r | 53 | 44 | 0 |



# WEATHER MAP.

12 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 12 August.....17·666

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 71 | 34 | 0 |
| Tenterfi'ld | b | 52 | 24 | 0 |
| Grafton.. | b | 69 | 42 | 0 |
| Inverell.. | b | 60 | 20 | 0 |
| Bourke .. | b | 65 | 32 | 0 |
| Narrabri.. | b | 61 | 32 | 0 |
| Armidale . | b | 54 | 33 | 0 |
| Bendemeer | b | 53 | 33 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 56 | 27 | 0 |
| P.Macqrie | b | 64 | 42 | 0 |
| Murr'undi | b | 53 | 44 | 0 |
| Cassilis.. | b | 50 | 30 | 0 |
| Mus'brook | b | 60 | 43 | 0 |
| Dubbo... | b | 56 | 35 | 0 |
| Mudgee.. | b | 52 | 35 | 0 |
| Maitland . | b | 60 | 45 | 0 |
| Newcastle | b | 65 | 42 | 0 |
| Orange .. | b | 41 | 34 | 0·19 |
| Bathurst.. | u | 44 | 33 | 0·04 |
| MtVictoria | c | 41 | 33 | 0 |
| Forbes... | b | 59 | 32 | 0·12 |
| 0 30·09 58 E. SYDNEY | b | 58 | 46 | 0 |
| Wentw'th | b | 61 | 30 | 0 |
| Young... | b | 49 | 36 | 0·08 |
| Woll'gong | b | 61 | 47 | 0 |
| Moss Vale | b | 46 | 35 | 0 |
| Euston... | n | 63 | 29 | 0 |
| Goulburn. | b | 47 | 35 | 0 |
| Wagga... | b | 54 | 35 | 0·02 |
| Cape Geo. | b | 66 | .. | 0 |
| Queanb'an | b | 51 | 33 | 0 |
| Deniliquin | n | 58 | 31 | 0 |
| Albury... | n | 56 | 32 | 0·08 |
| Bodalla .. | n | 60 | 28 | 0 |
| Cooma... | n | 48 | 26 | 0 |
| Eden.... | b | 53 | 45 | 0 |
| Gabo Isld | b | 57 | 44 | 0·60 |

# WEATHER MAP.

13 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·481

Total Rainfall from 1 Jan. to 13 August.....17·666

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 71 | 31 | 0 |
| Tenterfi'ld | b | 55 | 12 | 0 |
| Grafton.. | b | 72 | 33 | 0 |
| Inverell.. | b | 52 | 24 | 0 |
| Bourke .. | b | 50 | 33 | 0 |
| Narrabri.. | c | 59 | 31 | 0 |
| Armidale . | b | 50 | 34 | 0 |
| Bendemeer | b | 55 | 22 | 0 |
| Gunnedah | b | 71 | 19 | 0 |
| Coonab'an | b | 58 | 20 | 0 |
| P.Macqrie | b | 64 | 39 | 0 |
| Murr'undi | b | 53 | 31 | 0 |
| Cassilis.. | n | 56 | 23 | 0 |
| Mus'brook | b | 62 | 38 | 0 |
| Dubbo... | b | 56 | 34 | 0 |
| Mudgee.. | b | 62 | 35 | 0 |
| Maitland . | b | 61 | 36 | 0 |
| Newcastle | b | 65 | 40 | 0 |
| Orange .. | b | 51 | 33 | 0 |
| Bathurst.. | n | 49 | 27 | 0 |
| MtVictoria | n | 46 | 31 | 0 |
| Forbes... | b | 64 | 32 | 0 |
| 23 30·01 63 Ea | | | | |
| SYDNEY | b | 60 | 41 | 0 |
| Wentw'th | b | 64 | 36 | 0 |
| Young... | n | 55 | 32 | 0 |
| Woll'gong | b | 66 | 46 | 0 |
| Moss Vale | b | 49 | 34 | 0 |
| Euston... | b | 68 | 29 | 0 |
| Goulburn. | b | 51 | 30 | 0 |
| Wagga... | n | 60 | 33 | 0 |
| Cape Geo. | b | 64 | .. | 0 |
| Queanb'an | n | 52 | 29 | 0 |
| Deniliquin | b | 48 | 35 | 0 |
| Albury... | b | 76 | 37 | 0 |
| Bodalla .. | n | 65 | 26 | 0 |
| Cooma... | n | 57 | 21 | 0 |
| Eden..... | b | 58 | 40 | 0 |
| Gabo Isld. | c | 57 | 45 | 0 |

# WEATHER MAP.

14 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 14 August..... 17·666

| Stations | Wthr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 68 33 | | 0 |
| Tenterfi'ld | b | 67 14 | | 0 |
| Grafton.. | b | 68 37 | | 0 |
| Inverell.. | b | 50 21 | | 0 |
| Bourke .. | b | 72 33 | | 0 |
| Narrabri.. | b | 61 30 | | 0 |
| Armidale . | b | 54 21 | | 0 |
| Bendemeer | b | 57 28 | | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | n | 63 21 | | 0 |
| P.Macqrie | b | 61 42 | | 0 |
| Murr'undi | b | 53 33 | | 0 |
| Cassilis.. | n | 58 24 | | 0 |
| Mus'brook | b | 62 37 | | 0 |
| Dubbo.... | b | 56 34 | | 0 |
| Mudgee.. | n | 67 30 | | 0 |
| Maitland . | b | 58 35 | | 0 |
| Newcastle | b | 66 39 | | 0 |
| Orange .. | n | 47 28 | | 0 |
| Bathurst.. | n | 54 26 | | 0 |
| MtVictoria | n | 50 32 | | 0 |
| Forbes.... | b | 72 34 | | 0 |
| Sydney | b | 62 42 | | 0 |
| Wentw'th | b | 71 40 | | 0 |
| Young.... | b | 55 34 | | 0 |
| Wol'gong | b | 62 44 | | 0 |
| Moss Vale | b | 52 35 | | 0 |
| Euston... | b | 67 31 | | 0 |
| Goulburn. | b | 57 29 | | 0 |
| Wagga ... | b | 62 34 | | 0 |
| Cape Geo. | b | 64 .. | | 0 |
| Queanb'an | b | 55 31 | | 0 |
| Deniliquin | b | 65 39 | | 0 |
| Albury.... | b | 62 30 | | 0 |
| Bodalla .. | n | 69 27 | | 0 |
| Cooma ... | n | 62 22 | | 0 |
| Eden.... | b | 57 42 | | 0 |
| Gabo Isld. | b | 71 45 | | 0 |

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Eu, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

FINE GENERALLY

30·27

0 30·28 R 56

8 30·38 R 56

0 30·24 R 53

14 30·31 R 51

1 30·39 S 48

1 30·34 R 47

14 30·23 R 55

28 30·23 R 41

28 30·25 R 42

14 30·18 R 48

18 30·10 R 56

23 29·95 S 59

28 30·35 R 50

13 30 22 R 5

14 30·25 F 45

14 30·30 F 42

23 30·12 57

18 30·05 R 57

25 30·12 R 53

34 29·93 F 55

48 29·99 R 54

Bar' has risen about .10 on S.W. coast

# WEATHER MAP.

16 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years ...50·48

Total Rainfall from 1 Jan. to 16 August... ...17·656

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 77 | 23 | 0 |
| Tenterfi'ld | b | 64 | 15 | 0 |
| Grafton.. | b | 68 | 39 | 0 |
| Inverell.. | c | 71 | 59 | 0 |
| Bourke .. | b | 78 | 35 | 0 |
| Narrabri.. | b | 63 | 33 | 0 |
| Armidale . | b | 56 | 22 | 0 |
| Bendemeer | b | 62 | 23 | 0 |
| Gunnedah | b | 76 | 22 | 0 |
| Coonab'an | n | 69 | 24 | 0 |
| P.Macqrie | b | 66 | 44 | 0 |
| Murr'undi | b | 61 | 40 | 0 |
| Cassilis.. | n | 65 | 27 | 0 |
| Mus'brook | b | 71 | 40 | 0 |
| Dubbo... | b | 60 | 37 | 0 |
| Mudgee.. | b | 73 | 30 | 0 |
| Maitland . | b | 65 | 38 | 0 |
| Newcastle | b | 74 | 46 | 0 |
| Orange .. | n | 53 | 31 | 0 |
| Bathurst.. | n | 62 | 28 | 0 |
| MtVictoria | b | 58 | 36 | 0 |
| Forbes... | b | 70 | 35 | 0 |
| SYDNEY | b | 71 | 49 | 0 |
| Wentw'th | b | 80 | 39 | 0 |
| Young... | b | 62 | 38 | 0 |
| Wol'gong | b | 72 | 45 | 0 |
| Moss Vale | b | 60 | 39 | 0 |
| Euston... | b | 85 | 32 | 0 |
| Goulburn. | b | 44 | 30 | 0 |
| Wagga... | b | 69 | 37 | 0 |
| Cape Geo. | b | 68 | .. | 0 |
| Queanb'an | b | 66 | 35 | 0 |
| Deniliquin | b | 72 | 39 | 0 |
| Albury... | b | 70 | 35 | 0 |
| Bodalla .. | b | 78 | 34 | 0 |
| Cooma... | n | 64 | 24 | 0 |
| Eden.... | b | 69 | 45 | 0 |
| Gabo Isld. | b | 75 | 48 | 0 |

As 0 30·29 R 57

0 29·94 58 Ea.

23 30·35 R 64 Bo

FINE N.S.WALES

13 30 16 F 62 A 30·37 R 47 D

W 28 30·73 R 49

23 30·08 58 CB

18 30·11 F 56 Re

14 30·37 R 49 AA

18 30·31 F 60 M

28 30·18 F 57 P

18 30·20 F 60 CO

23 30·18 F 61 WP

R 30·32

B 13 30·47 R 59

C 14 30·29

PM 14 30·23 F 49

N 5 30·46 R 55

S 8 30·45 R 54

Wg 14 30·47 R 55

CG 14 30·26 R 56

Ma 28 30·40 R 46

E 14 30·35 R 54

Go 8 30·25 R 53

Bar has risen about .15 on E coast

# WEATHER MAP.

17 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 17 August.....17·666

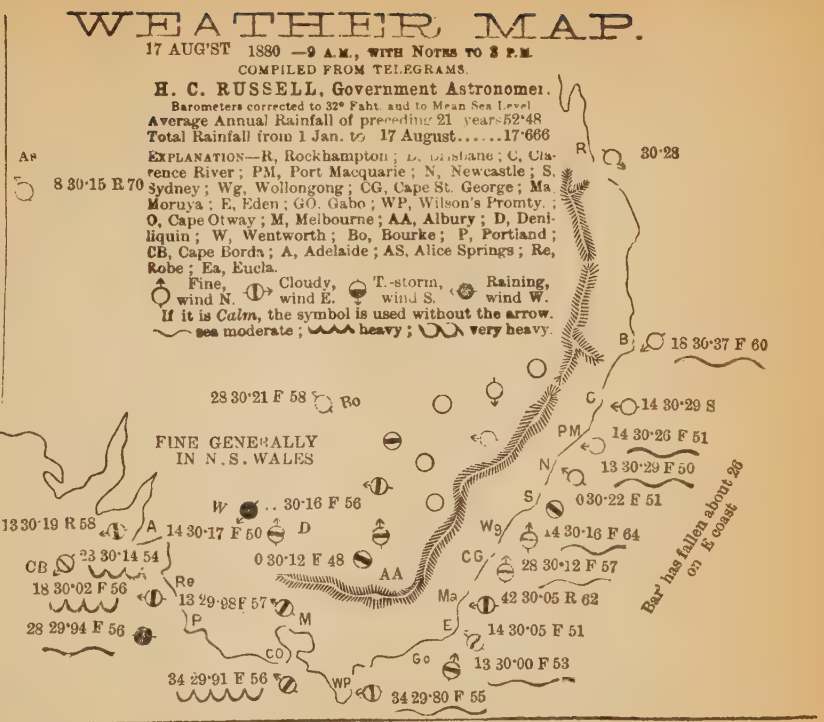
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 77 | 35 | 0 |
| Tenterfi'ld | b | 65 | 19 | 0 |
| Grafton.. | b | 77 | 41 | 0 |
| Inverell.. | b | 65 | 24 | 0 |
| Bourke .. | b | 82 | 47 | 0 |
| Narrabri.. | b | 63 | 41 | 0 |
| Armidale . | b | 60 | 30 | 0 |
| Bendemeer | b | 62 | 27 | 0 |
| Gunnedah | b | 81 | 25 | 0 |
| Coonab'an | b | 73 | 27 | 0 |
| P.Macqrie | b | 69 | 42 | 0 |
| Murr'undi | b | 64 | 47 | 0 |
| Cassilis.. | n | 67 | 27 | 0 |
| Mus'brook | b | 73 | 39 | 0 |
| Dubbo... | c | 64 | 37 | 0 |
| Mudgee.. | n | 75 | 33 | 0 |
| Maitland . | b | 66 | 38 | 0 |
| Newcastle | b | 71 | 43 | 0 |
| Orange .. | c | 55 | 34 | 0 |
| Bathurst.. | n | 65 | 29 | 0 |
| MtVictoria | b | 60 | 30 | 0 |
| Forbes... | u | 80 | 41 | 0 |
| 0 30·28 59 F. | | | | |
| SYDNEY | c | 70 | 45 | 0 |
| Wentw'th | r | 76 | 40 | 0·04 |
| Young... | c | 66 | 41 | 0 |
| Woll'gong | c | 74 | 47 | 0 |
| Moss Vale | c | 61 | 41 | 0 |
| Euston... | u | 73 | 40 | 0 |
| Goulburn. | u | 68 | 33 | 0 |
| Wagga... | b | 70 | 40 | 0 |
| Cape Geo. | c | 71 | .. | 0 |
| Queanb'an | f | 64 | 31 | 0 |
| Deniliquin | u | 73 | 42 | 0 |
| Albury... | b | 70 | 38 | 0 |
| Bodalla .. | n | 76 | 35 | 0 |
| Cooma... | n | 53 | 31 | 0 |
| Eden..... | u | 69 | 46 | 0 |
| Gabo Isld | u | 69 | 51 | 0 |



# WEATHER MAP.

18 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 18 August.....17·666

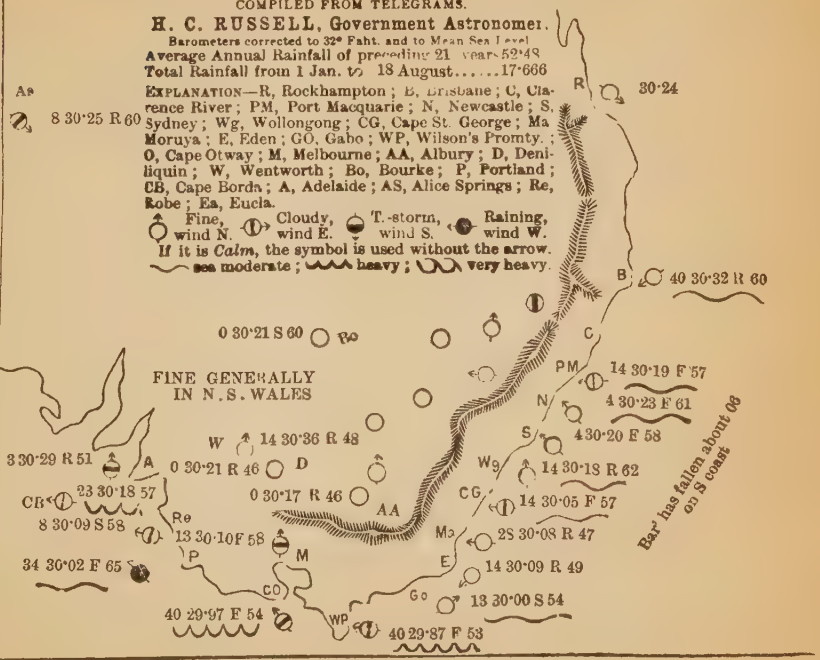
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | c | 72 | 43 | 0 |
| Tenterfi'ld | u | 67 | 27 | 0 |
| Grafton.. | b | 77 | 46 | 0 |
| Inverell.. | b | 65 | 33 | 0 |
| Bourke .. | b | 83 | 47 | 0 |
| Narrabri.. | b | 70 | 42 | 0 |
| Armidale . | b | 62 | 30 | 0 |
| Bendemeer | b | 67 | 34 | 0 |
| Gunnedah | . | .. | .. | .. |
| Coonab'an | b | 69 | 33 | 0 |
| P.Macqrie | c | 68 | 50 | 0 |
| Murr'undi | b | 65 | 51 | 0 |
| Cassilis.. | b | 66 | 39 | 0 |
| Mus'brook | b | 74 | 49 | 0 |
| Dubbo... | b | 64 | 44 | 0 |
| Mudgee.. | b | 68 | 38 | 0 |
| Maitland . | b | 69 | 47 | 0 |
| Newcastle | b | 75 | 49 | 0 |
| Orange .. | b | 58 | .. | 0 |
| Bathurst.. | b | 64 | 35 | 0 |
| MtVictoria | b | 58 | 44 | 0 |
| Forbes... | b | 82 | 42 | 0 |
| 18 30·27 58 Ea | | | | |
| SYDNEY | b | 73 | 52 | 0 |
| Wentw'th | b | 71 | 38 | 0·05 |
| Young... | b | 64 | 41 | 0 |
| Woll'gong | c | 73 | 49 | 0 |
| Moss Vale | b | 58 | 43 | 0 |
| Euston... | b | 78 | 34 | 0 |
| Goulburn. | b | 66 | 42 | 0 |
| Wagga... | b | 73 | 37 | 0 |
| Cape Geo. | b | 70 | .. | 0 |
| Queanb'an | n | 66 | 35 | 0 |
| Deniliquin | b | 64 | 35 | 0 |
| Albury... | b | 67 | 35 | 0 |
| Bodalla .. | b | 72 | 35 | 0 |
| Cooma... | b | 65 | 35 | 0 |
| Eden..... | b | 61 | 45 | 0 |
| Gabo Isld | b | 66 | 49 | 0 |



# WEATHER MAP.

19 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 19 August.....17·667

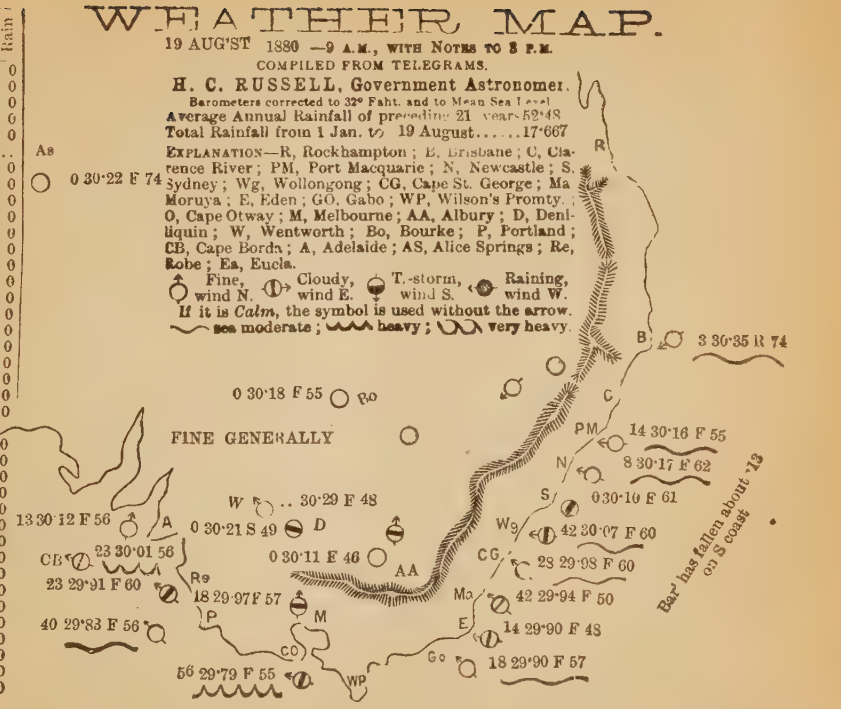
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

| Stations | Weth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 80 | 29 | 0 |
| Tenterfi'ld | b | 66 | 21 | 0 |
| Grafton.. | b | 74 | 43 | 0 |
| Inverell.. | b | 60 | 36 | 0 |
| Bourke .. | b | 68 | 46 | 0 |
| Narrabri.. | .. | .. | .. | .. |
| Armidale . | b | 60 | 33 | 0 |
| Bendemeer | b | 66 | 25 | 0 |
| Gunnedah | b | 82 | 30 | 0 |
| Coonab'an | b | 74 | 31 | 0 |
| P.Macqrie | b | 70 | 47 | 0 |
| Murr'undi | b | 67 | 52 | 0 |
| Cassilis.. | b | 72 | 35 | 0 |
| Mus'brook | b | 77 | 46 | 0 |
| Dubbo... | b | 68 | 43 | 0 |
| Mudgee.. | b | 76 | 37 | 0 |
| Maitland . | b | 73 | 55 | 0 |
| Newcastle | b | 78 | 52 | 0 |
| Orange .. | b | 51 | 26 | 0 |
| Bathurst.. | b | 67 | 33 | 0 |
| MtVictoria | b | 61 | 44 | 0 |
| Forbes... | b | 80 | 40 | 0 |
| SYDNEY | c | 76 | 53 | 0 |
| Wentw'th | c | 70 | 37 | 0 |
| Young... | b | 65 | 39 | 0 |
| Woll'gong | u | 80 | 54 | 0 |
| Moss Vale | u | 63 | 46 | 0 |
| Euston... | u | 76 | 36 | 0 |
| Goulburn. | b | 65 | 44 | 0 |
| Wagga... | b | 69 | 37 | 0 |
| Cape Geo. | b | 73 | .. | 0 |
| Queanb'an | b | 64 | 43 | 0 |
| Deniliquin | c | 61 | 38 | 0 |
| Albury... | b | 65 | 33 | 0 |
| Bodalla .. | b | 78 | 32 | 0 |
| Cooma ... | c | 64 | 40 | 0 |
| Eden.... | b | 63 | 44 | 0 |
| Gabo Isld. | b | 74 | 50 | 0 |



# WEATHER MAP.

20 AUG'ST 1889 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 20 August.....17·667

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

*If it is Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Wth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 82 | 43 | 0 |
| Tenterfi'ld | .. | .. | .. | .. |
| Grafton.. | b | 83 | 42 | 0 |
| Inverell.. | b | 68 | 35 | 0 |
| Bourke .. | b | 89 | 50 | 0 |
| Narrabri.. | b | 75 | 43 | 0 |
| Armidale . | b | 62 | 33 | 0 |
| Sendemeer | b | 69 | 32 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | b | 74 | 33 | 0 |
| P.Macqrie | u | 72 | 48 | 0 |
| Murr'undi | b | 69 | 38 | 0 |
| Cassilis.. | b | 75 | 40 | 0 |
| Mus'brook | b | 79 | 59 | 0 |
| Dubbo.... | b | 69 | 46 | 0 |
| Mudgee.. | b | 75 | 41 | 0 |
| Maitland . | c | 74 | 56 | 0 |
| Newcastle | u | 79 | 56 | 0 |
| Orange .. | b | 60 | 32 | 0 |
| Bathurst.. | b | 68 | 35 | 0 |
| MtVictoria | b | 62 | 30 | 0 |
| Forbes... | b | 81 | 46 | 0 |
| SYDNEY | c | 77 | 62 | 0 |
| Wentw'th | c | 76 | 46 | 0 |
| Young... | c | 66 | 43 | 0 |
| Wolf'gong | u | 80 | 57 | 0 |
| Moss Vale | b | 64 | 50 | 0 |
| Euston.... | b | 79 | 40 | 0 |
| Goulburn. | b | 66 | 51 | 0 |
| Wagga.... | u | 71 | 39 | 0 |
| Cape Geo. | b | 66 | .. | 0 |
| Queanb'an | b | 65 | 42 | 0 |
| Deniliquin | c | .. | .. | 0 |
| Albury.... | b | 68 | 39 | 0 |
| Bodalla ... | c | 72 | 37 | 0 |
| Cooma.... | b | 65 | 46 | 0 |
| Eden..... | u | 65 | 60 | 0 |
| Gabo Isld. | b | 69 | 56 | 0 |

# WEATHER MAP.

21 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 21 August.....17·667

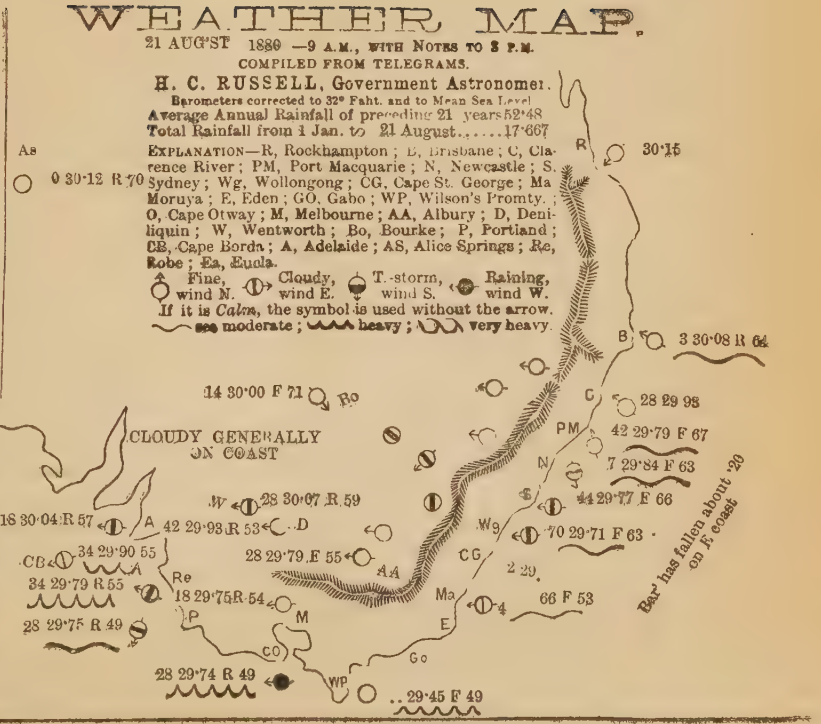
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S. Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Lismo.... | h | 84 | 53 | 0 |
| Centerfi'ld | b | 69 | 34 | 0 |
| Grafton.. | b | 85 | 49 | 0 |
| Inverell.. | b | 70 | 35 | 0 |
| Bourke .. | b | 84 | 54 | 0 |
| Narrabri.. | .. | .. | .. | .. |
| Armidale . | b | 69 | 35 | 0 |
| Beardsmeer | b | 71 | 37 | 0 |
| Gunnedah | b | 85 | 40 | 0 |
| Coonab'an | b | 77 | 43 | 0 |
| P.Macqrie | b | 77 | 51 | 0 |
| Murr'undi | b | 74 | 64 | 0 |
| Cassilis.. | b | 76 | 60 | 0 |
| Mus'brook | b | 82 | 68 | 0 |
| Dubbo.... | c | 71 | 53 | 0 |
| Mudgee.. | b | 76 | 50 | 0 |
| Maitland . | u | 78 | 62 | 0 |
| Newcastle | b | 81 | 62 | 0 |
| Orange .. | c | 61 | 46 | 0 |
| Bathurst.. | u | 68 | 42 | 0 |
| Mt Victoria | u | 64 | 49 | 0 |
| Forbes.... | u | 85 | 57 | 0 |
| 13 30·12 60 Ea | | | | |
| SYDNEY | c | 79 | 62 | 0 |
| Wentw'th | b | 85 | 52 | 0 |
| Young... | u | 69 | 50 | 0·03 |
| Wol'gong | c | 84 | 53 | 0 |
| Moss Vale | c | 67 | 48 | 0·06 |
| Euston... | b | 88 | 49 | 0 |
| Goulburn. | u | 70 | 48 | 0·13 |
| Wagga... | b | 67 | 44 | 0·09 |
| Cape Geo. | .. | .. | .. | .. |
| Queamb'an | c | 67 | 49 | 0·10 |
| Deniliquin | b | 75 | 44 | 0·01 |
| Albury... | c | 71 | 49 | 0 |
| Bodalla .. | b | 81 | 42 | 0 |
| Cooma... | b | 68 | 46 | 0·10 |
| Eden..... | .. | .. | .. | .. |
| Gabo Isld | .. | .. | .. | .. |



# WEATHER MAP.

23 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 23 August..... 17·667

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | .. | .. | 0 |
| Tenterfi'ld | g | 67 | 32 | 0 |
| Grafton.. | b | 72 | 63 | 0 |
| Inverell.. | b | 74 | 35 | 0 |
| Bourke .. | g | 78 | 45 | 0 |
| Narrabri.. | .. | .. | .. | .. |
| Armidale . | b | 70 | 20 | 0 |
| Bendemeer | b | 74 | 31 | 0 |
| Gunnedah | b | 81 | 31 | 0 |
| Coonab'an | o | 80 | 32 | 0 |
| P.Macqrie | h | 64 | 39 | 0 |
| Murr'undi | b | 73 | 43 | 0 |
| Cassilis.. | n | 59 | 31 | 0 |
| Mus'brook | b | 70 | 43 | 0 |
| Dubbo.... | b | 72 | 44 | 0 |
| Mudgee.. | b | 73 | 49 | 0 |
| Maitland . | b | 72 | 62 | 0 |
| Newcastle | b | 64 | 43 | 0 |
| Orange .. | b | .. | .. | 0 |
| Bathurst.. | n | 63 | 28 | 0 |
| MtVictoria | b | 45 | 32 | 0 |
| Forbes... | b | 74 | 38 | 0 |
| SYDNEY | b | 60 | 43 | 0 |
| Wentw'th | d | 70 | 50 | 0 |
| Young... | o | 61 | 39 | 0 |
| Woll'gong | o | 62 | 42 | 0 |
| Moss Vale | b | 53 | 37 | 0 |
| Euston.... | o | 72 | 35 | 0 |
| Goulburn. | b | 59 | 38 | 0 |
| Wagga.... | b | 64 | 35 | 0·09 |
| Cape Geo. | .. | 62 | .. | .. |
| Queanb'an | b | .. | .. | .. |
| Deniliquin | p | 64 | 30 | 0·02 |
| Albury.... | b | 63 | 30 | 0 |
| Bodalla .. | b | .. | .. | 0 |
| Cooma.... | n | 57 | 30 | 0·15 |
| Edea..... | .. | 56 | 49 | .. |
| Gabo Isld. | .. | 57 | 46 | .. |

CLOUDY IN VICTORIA

Rain has risen about .48 on N. coast

# WEATHER MAP.

24 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 24 August.....17·670

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | Wth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 77 | 60 | 0 |
| Tenterfi'ld | b | 70 | 48 | 0 |
| Grafton.. | b | 71 | 60 | 0 |
| Invereli.. | b | 69 | 59 | 0 |
| Bourke .. | b | 84 | 48 | 0 |
| Narrabri.. | .. | 74 | 43 | .. |
| Armidale . | b | 62 | 34 | 0 |
| Bendemeer | b | 69 | 32 | 0 |
| Gunnedah | b | 69 | 32 | 0 |
| Coonab'an | b | 80 | 50 | 0 |
| P.Macqrie | o | 67 | 47 | 0 |
| Murr'undi | b | 65 | 50 | 0 |
| Cassilis.. | f | 68 | 35 | 0 |
| Mus'brook | b | 74 | 46 | 0 |
| Dubbo... | b | 67 | 43 | 0 |
| Mudgee.. | b | 78 | 39 | 0 |
| Maitland . | b | 63 | 46 | 0 |
| Newcastle | b | 72 | 43 | 0 |
| Orange .. | b | 57 | 34 | 0 |
| Bathurst.. | b | 68 | 32 | 0 |
| MtVictoria | b | 61 | 39 | 0 |
| Forbes.. , | b | 81 | 39 | 0 |
| SYDNEY | m | 63 | 49 | 0 |
| Wentw'th | b | 74 | 40 | 0 |
| Young... | b | 64 | 41 | 0 |
| Woll'gong | b | 71 | 52 | 0 |
| Moss Vale | b | 63 | 38 | 0 |
| Euston.... | b | 72 | 30 | 0 |
| Goulburn. | b | 67 | 33 | 0·02 |
| Wagga. ... | b | 68 | 37 | 0 |
| Cape Geo. | b | 74 | .. | 0 |
| Queanb'an | b | 63 | 30 | 0 |
| Deniliquin | b | 66 | 38 | 0 |
| Albury. ... | b | 61 | 34 | 0·04 |
| Bodalla .. | n | 72 | 34 | 0 |
| Cooma ... | n | 65 | 27 | 0 |
| Eden.... | n | 57 | 46 | 0 |
| Gabo Isld. | b | 57 | 50 | 0 |

As 0 30·16 R 68

13 30·02 65 Ea

FINE GENERALLY

14 30·20 R 66 Bo

W 28 30·37 R 51

S 30 26 F 57 A 0 30·33 R 46 D

CB 18 30·20 54 0 30·25 R 42 AA

S 30·24 R 55 Re 3 30·30 R 50

18 30·28 R 50 P M

CO 0 30·30 R 51

WP 13 30·21 R 53

Go 23 30·21 R 53

E 14 30·30 R 50

Ma 28 30·29 R 47

CG 0 30·15 S 62

Wg 14 30·31 R 56

S 3 30·32 R 55

N 4 30·32 R 62

PM 14 30·25 R 56

C 14 30 19 F..

B 3 30·31 R 62

R 30·26

W E S

Bar^ has risen about ·22 on SE coast

# WEATHER MAP.

25 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 25 August.....17·670

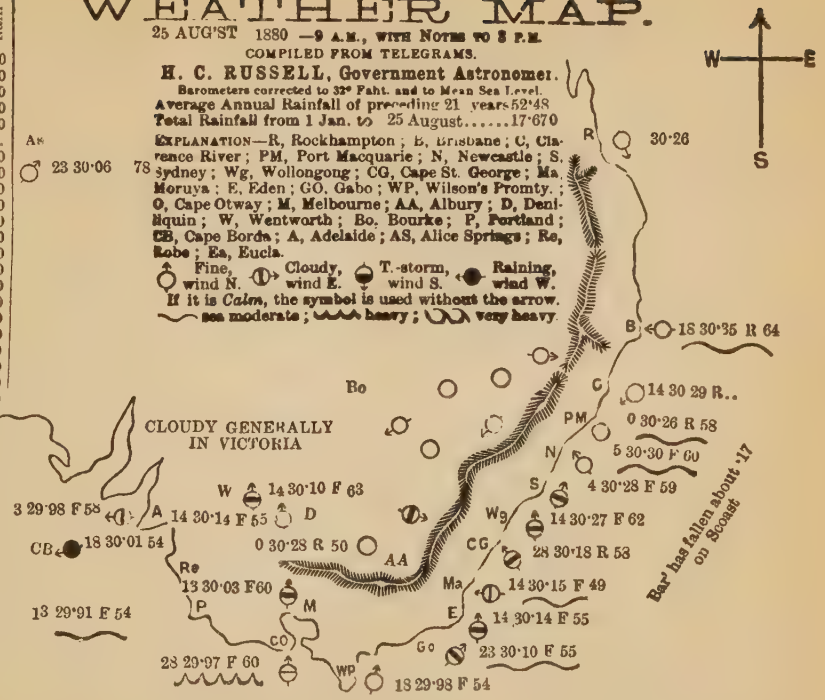
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 79 | 46 | 0 |
| Tenterfi'ld | b | 72 | 29 | 0 |
| Grafton.. | b | 83 | 49 | 0 |
| Inverell.. | b | 72 | 39 | 0 |
| Bourke .. | b | .. | .. | 0 |
| Narrabri.. | .. | 78 | 50 | .. |
| Armidale . | b | 65 | 34 | 0 |
| Bendemeer | b | 74 | 33 | 0 |
| Gunnedah | b | .. | . | 0 |
| Coonab'an | b | 60 | 40 | 0 |
| P.Macqrie | m | 74 | 50 | 0 |
| Murr'undi | b | 70 | 48 | 0 |
| Cassilis.. | f | 73 | 42 | 0 |
| Mus'brook | o | 77 | 64 | 0 |
| Dubbo... | b | 68 | 47 | 0 |
| Mudgee.. | b | 79 | 41 | 0 |
| Maitland . | f | 65 | 50 | 0 |
| Newcastle | b | 71 | 44 | 0 |
| Orange .. | b | 61 | 42 | 0 |
| Bathurst.. | f | 70 | 35 | 0 |
| MtVictoria | b | 64 | 41 | 0 |
| Forbes... | b | 83 | 41 | 0 |
| 18 30·29 58 Ea | | | | |
| SYDNEY | o | 66 | 55 | 0 |
| Wentw'th | o | 59 | 47 | 0 |
| Young... | b | 66 | 43 | 0 |
| Woll'gong | o | 68 | 53 | 0 |
| Moss Vale | b | 62 | 46 | 0 |
| Euston. .. | o | 79 | 40 | 0 |
| Goulburn. | b | 71 | 38 | 0 |
| Wagga. .. | b | 70 | 42 | 0 |
| Cape Geo. | b | 64 | .. | 0 |
| Queanb'an | b | 65 | 38 | 0 |
| Deniliquin | b | 69 | 33 | 0 |
| Albury. .. | b | 67 | 38 | 0 |
| Bodalla .. | h | 65 | 40 | 0 |
| Cooma . .. | f | 68 | 31 | 0 |
| Eden.... | o | 60 | 51 | 0 |
| Gabo Isld. | b | 60 | 50 | 0 |



# WEATHER MAP.

26 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 26 August.....17·671

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 80 | 42 | 0 |
| Tenterfi'ld | b | 68 | 28 | 0 |
| Grafton.. | b | 78 | 47 | 0 |
| Inverell.. | b | 70 | 41 | 0 |
| Bourke .. | u | 92 | 51 | 0 |
| Narrabri.. | b | 72 | 51 | 0 |
| Armidale . | b | 65 | 34 | 0 |
| Bendemeer | b | 75 | 41 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | u | 76 | 41 | 0 |
| P.Macqrie | .. | .. | .. | .. |
| Murr'undi | b | 69 | 54 | 0 |
| Cassilis.. | c | 75 | 43 | 0 |
| Mus'brook | u | 76 | 56 | 0 |
| Dubbo... | r | 74 | 55 | 0 |
| Mudgee.. | r | 77 | 45 | 0 |
| Maitland . | b | 76 | 47 | 0 |
| Newcastle | b | 74 | 53 | 0 |
| Orange ... | r | 61 | 44 | 0·24 |
| Bathurst.. | r | 71 | 41 | 0·08 |
| Mt Victoria | u | 68 | 49 | 0 |
| Forbes... | u | 80 | 38 | 0·24 |
| SYDNEY | c | 69 | 60 | 0 |
| Wentw'th | b | 80 | 41 | 0·21 |
| Young... | p | 71 | 52 | 0·25 |
| Woll'gong | b | 70 | 52 | 0 |
| Moss Vale | u | 69 | 47 | 0·05 |
| Euston... | b | 88 | 43 | 0 |
| Goulburn. | r | 74 | 46 | 0·02 |
| Wagga... | r | 74 | 51 | 0·23 |
| Cape Geo. | .. | 70 | .. | 0 |
| Queanb'an | u | 69 | 44 | 0·07 |
| Deniliquin | b | 82 | 44 | 0·20 |
| Albury... | u | 75 | 48 | 0·55 |
| Bodalla .. | q | 68 | 43 | 0 |
| Cooma... | c | 70 | 36 | 0 |
| Eden..... | r | 60 | 50 | 0·16 |
| Gabo Isld. | d | 67 | 50 | 0 |

# WEATHER MAP.

27 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 27 August.....17·671

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 81 | 40 | 0 |
| Tenterfi'ld | b | 66 | 25 | 0 |
| Grafton.. | b | 81 | 53 | 0 |
| Inverell.. | b | 69 | 33 | 0·04 |
| Bourke .. | b | 74 | 39 | 0 |
| Narrabri.. | b | 71 | 40 | 0 |
| Armidale . | b | 59 | 34 | 0 |
| Bendemeer | b | 64 | 31 | 0 |
| Gunnedah | b | 73 | 28 | 0·08 |
| Coonab'an | b | 62 | 32 | 0 |
| P.Macqrie | b | 76 | 47 | 0 |
| Murr'undi | b | 62 | 54 | 0 |
| Cassilis.. | b | 63 | 31 | 0 |
| Mus'brook | b | 79 | 46 | 0·01 |
| Dubbo... | b | 64 | 42 | 0·32 |
| Mudgee.. | b | 70 | 35 | 0·21 |
| Maitland . | b | 69 | 44 | 0 |
| Newcastle | b | 72 | 45 | 0 |
| Orange .. | b | 51 | 37 | 0·25 |
| Bathurst.. | u | 54 | 36 | 0·12 |
| MtVictoria | b | 68 | 34 | 0 |
| Forbes... | b | 82 | 34 | 0 |
| 23 30·26 59 Ea | | | | |
| SYDNEY | b | 68 | 50 | 0 |
| Wentw'th | b | 67 | 38 | 0 |
| Young... | c | 59 | 39 | 0·05 |
| Woll'gong | b | 70 | 46 | 0 |
| Moss Vale | b | 56 | 38 | 0 |
| Euston.. | b | 76 | 40 | 0 |
| Goulburn. | b | 57 | 41 | 0·06 |
| Wagga... | b | 69 | 39 | 0 |
| Cape Geo. | b | 67 | .. | 0 |
| Queanb'an | b | 59 | 37 | 0 |
| Deniliquin | b | 60 | 35 | 0 |
| Albury... | b | 61 | 39 | 0·03 |
| Bodalla .. | b | 68 | 48 | 0·13 |
| Cooma ... | c | 56 | 38 | 0 |
| Eden.... | u | 57 | 46 | 0·05 |
| Gabo Isld | u | 57 | 45 | 0·22 |

# WEATHER MAP.

28 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 28 August.....17·671

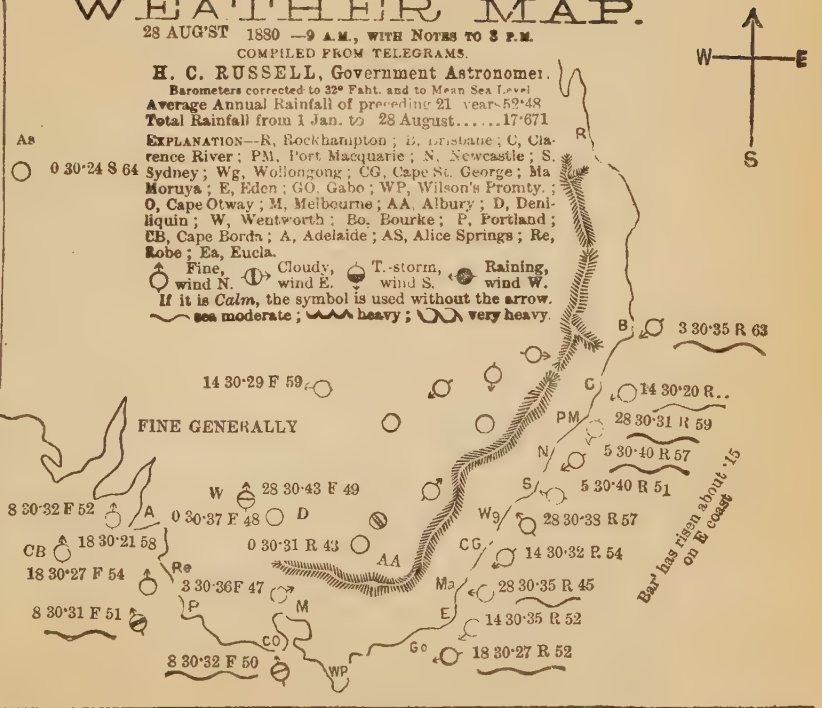
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | W'th'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 76 | 38 | 0 |
| Tenterfi'ld | b | 67 | 22 | 0 |
| Grafton.. | b | 74 | 43 | 0 |
| Inverell.. | b | 61 | 35 | 0 |
| Bourke .. | b | 74 | 38 | 0 |
| Narrabri.. | b | 88 | 47 | 0 |
| Armidale . | b | 61 | 32 | 0 |
| Bendemeer | b | 61 | 29 | 0 |
| Gunnedah | b | 77 | 28 | 0 |
| Coonab'an | b | 64 | 27 | 0 |
| P.Macqrie | b | 66 | 48 | 0 |
| Murr'undi | b | 59 | 42 | 0 |
| Cassilis.. | u | 62 | 31 | 0 |
| Mus'brook | u | 68 | 48 | 0 |
| Dubbo... | b | 60 | 42 | 0 |
| Mudgee.. | b | 79 | 39 | 0 |
| Maitland . | b | 64 | 49 | 0 |
| Newcastle | b | 65 | 51 | 0 |
| Orange .. | b | 50 | 34 | 0 |
| Bathurst.. | b | 59 | 31 | 0 |
| Mt Victoria | b | 56 | 34 | 0 |
| Forbes... | b | 80 | 38 | 0 |
| 23 29·93 | 76 | Ea | | |
| SYDNEY | b | 62 | 47 | 0 |
| Wentw'th | b | 68 | 37 | 0 |
| Young... | b | 61 | 38 | 0 |
| Woll'gong | b | 66 | 46 | 0 |
| Moss Vale | fn | 55 | 36 | 0 |
| Euston... | b | 80 | .. | 0 |
| Goulburn. | f | 59 | 32 | 0 |
| Wagga ... | b | 65 | 36 | 0 |
| Cape Geo. | b | 64 | .. | 0 |
| Queanb'an | b | 61 | 37 | 0 |
| Deniliquin | b | 65 | 35 | 0 |
| Albury... | f | 65 | 34 | 0 |
| Bodalla ... | n | 67 | 34 | 0 |
| Cooma ... | nf | 53 | 25 | 0 |
| Eden.... | b | 58 | 45 | 0 |
| Gabo Isld | b | 58 | 47 | 0 |



# WEATHER MAP.

30 AUG'ST 1880 —9 A.M., WITH NOTES TO 8 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Fahr. and to Mean Sea Level

**Average Annual Rainfall of preceding 21 years 52·48**

**Total Rainfall from 1 Jan. to 30 August.....17·671**

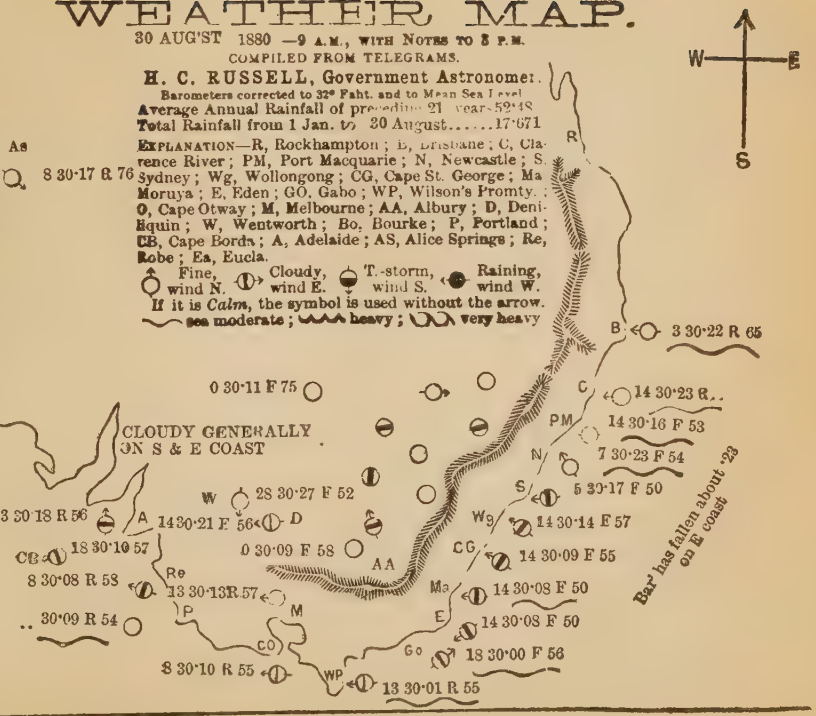
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy

| Stations | Wth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | h | 80 | 40 | 0 |
| Tenterfi'ld | .. | .. | .. | .. |
| Grafton.. | b | 75 | 45 | 0 |
| Inverell.. | b | 65 | 30 | 0 |
| Bourke .. | b | 85 | 43 | 0 |
| Narrabri.. | b | 74 | 46 | 0 |
| Armidale . | b | 60 | 30 | 0 |
| Bendemeer | b | 69 | 33 | 0 |
| Gunnedah | .. | .. | .. | .. |
| Coonab'an | b | 75 | 28 | 0 |
| P.Macqrie | m | 67 | 45 | 0 |
| Murr'undi | b | 63 | 46 | 0 |
| Cassilis.. | b | 69 | 29 | 0 |
| Mus'brook | b | 74 | 44 | 0 |
| Dubbo... | b | 66 | 42 | 0 |
| Mudgee.. | u | 71 | 35 | 0 |
| Maitland . | c | 68 | 40 | 0 |
| Newcastle | b | 67 | 43 | 0 |
| Orange .. | b | 57 | 34 | 0 |
| Bathurst.. | b | 68 | 30 | 0 |
| MtVictoria | u | 64 | 41 | 0 |
| Forbes... | c | 82 | 39 | 0 |
| [illegible] | 3 30·11 | 61 | Ea | |
| Sydney | b | 63 | 45 | 0·01 |
| Wentw'th | b | 79 | 45 | 0·05 |
| Young.... | c | 66 | 42 | 0 |
| Woll'gong | u | 68 | 48 | 0 |
| Moss Vale | u | 61 | 40 | 0 |
| Euston... | b | 84 | 41 | 0 |
| Goulburn. | b | 69 | 33 | 0 |
| Wagga .. | b | 71 | 36 | 0 |
| Cape Geo. | b | 64 | .. | 0 |
| Queanb'an | b | 67 | 34 | 0 |
| Deniliquin | u | 70 | 37 | 0 |
| Albury... | b | 69 | 34 | 0 |
| Bodalla .. | b | 72 | 38 | 0 |
| Cooma ... | u | 68 | 36 | 0 |
| Eden..... | u | 60 | 47 | 0 |
| Gabo Isld | u | 73 | 50 | 0 |



# WEATHER MAP.

31 AUG'ST 1880 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

**H. C. RUSSELL, Government Astronomer.**

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 21 years 52·48

Total Rainfall from 1 Jan. to 31 August.....17·671

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

| Stations | Weth'r | Max | Min | Rain |
|---|---|---|---|---|
| Casino.... | b | 83 | 45 | 0 |
| Tenterfi'ld | b | 69 | 26 | 0 |
| Grafton.. | b | 79 | 49 | 0 |
| Inverell.. | b | 67 | 38 | 0 |
| Bourke .. | u | 93 | 51 | 0 |
| Narrabri.. | b | 71 | 47 | 0 |
| Armidale . | b | 62 | 30 | 0 |
| Bendemeer | b | 72 | 32 | 0 |
| Gunnedah | b | 86 | 35 | 0 |
| Coonab'an | u | 75 | 39 | 0 |
| P.Macqrie | b | 72 | 48 | 0 |
| Murr'undi | b | 67 | 49 | 0 |
| Cassilis.. | c | 74 | 32 | 0 |
| Mus'brook | b | 79 | 48 | 0 |
| Dubbo... | u | 71 | 48 | 0 |
| Mudgee.. | u | 78 | 40 | 0 |
| Maitland . | b | 73 | 46 | 0 |
| Newcastle | b | 82 | 43 | 0 |
| Orange .. | b | 60 | 40 | 0 |
| Bathurst.. | b | 70 | 37 | 0 |
| Mt Victoria | b | 65 | 48 | 0 |
| Forbes... | u | 81 | 51 | 0 |
| S 30·28 61 Ea | | | | |
| SYDNEY | b | 69 | 49 | 0 |
| entw'th | b | 74 | 40 | 0 |
| oung... | b | 68 | 45 | 0 |
| Woll'gong | u | 74 | 47 | 0 |
| Moss Vale | b | 66 | 40 | 0 |
| Euston... | b | 87 | 36 | 0 |
| Goulburn. | b | 70 | 35 | 0 |
| Wagga... | b | 77 | 46 | 0·01 |
| Cape Geo. | b | 67 | .. | 0 |
| Queanb'an | b | 68 | 41 | 0 |
| Deniliquin | b | 70 | 38 | 0 |
| Albury... | b | 74 | 42 | 0 |
| Dodalla .. | .. | 76 | 37 | 0 |
| Yeoma ... | u | 72 | 30 | 0 |
| Eden.... | b | 64 | 45 | 0 |
| Gabo Isld | b | 71 | 49 | 0 |

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., Sept'ber 1 1880, with NOTES to 3 P.M**

Sydney Observatory.

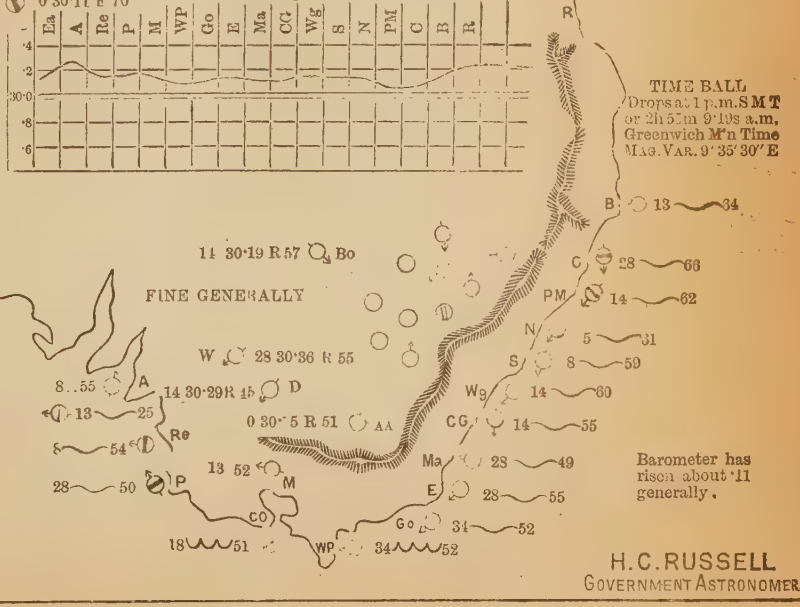
*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·61*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 1 17·684.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | With | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 82 | 59 | 0 |
| Tenterfild | b | 74 | 34 | 0 |
| Moree.... | b | 73 | 59 | 0·06 |
| Grafton.. | b | 80 | 57 | 0 |
| Inverell.. | b | 73 | 35 | 0·05 |
| Bourke .. | b | 73 | 43 | 0·05 |
| Narrabri | b | 75 | 53 | 0·08 |
| Armidale | b | 70 | 35 | 0·11 |
| Bendem'r | b | 71 | 46 | 0·20 |
| Gunned'h | b | 85 | 41 | 0·16 |
| Coonab'rn | b | 75 | 40 | 0·14 |
| P.Macqrie | b | 73 | 56 | 0·06 |
| Murr'undi | b | 68 | 51 | 0·18 |
| Cassilis.. | b | 69 | 40 | 0·23 |
| Mus'br'ok | b | 71 | 52 | 0·09 |
| Dubbo... | b | 62 | 44 | 0·11 |
| Mudgee.. | u | 67 | 38 | 0·15 |
| Maitland. | b | 74 | 55 | 0·05 |
| Hill End. | .. | .. | .. | .. |
| Newcastle | b | 81 | 55 | 0 |
| Orange.. | b | 69 | 38 | 0 |
| Bathurst. | b | 60 | 36 | 0·05 |
| Condob'ln | b | 58 | 48 | 0 |
| MtVict'ria | b | 66 | 49 | 0 |
| Forbes... | b | 73 | 40 | 0 |
| SYDNEY.. | b | 73 | 40 | 0 |
| 23 61 | | Ea | | |
| Picton | b | 74 | 54 | 0 |
| Wentw'th | b | 73 | 39 | 0 |
| Young... | b | 70 | 36 | 0 |
| Wollgo'ng | b | 69 | 40 | 0 |
| Moss Vale | b | 68 | 41 | 0 |
| Euston... | b | 75 | 31 | 0 |
| Goulburn | b | 71 | 38 | 0 |
| Wagga... | b | 76 | 41 | 0 |
| Cape Geo. | b | 74 | .. | 0 |
| Queanb'n | b | 71 | 35 | 0 |
| Deniliq'in | b | 67 | 32 | 0 |
| Moruya.. | b | 68 | 45 | 0 |
| Kiandra.. | b | 54 | 34 | 0 |
| Albury.. | b | 70 | 38 | 0 |
| Bodalla.. | b | 79 | 37 | 0 |
| Cooma... | b | 69 | 29 | 0 |
| Eden.... | b | 60 | 48 | 0 |
| Gabo Isl'd | b | 62 | 48 | 0 |




*Curve showing state of Barometer.*




Barometer has risen about ·11 generally.

H.C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

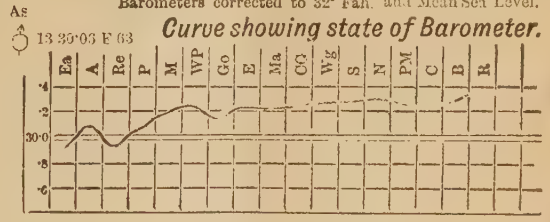
**COMPILED** from TELEGRAMS for 9 A.M., September 2 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 2 17·654.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 84 | 58 | 0 |
| Tenterfield | u | 73 | 39 | 0 |
| Moree.... | b | 70 | 58 | 0 |
| Grafton.. | b | 78 | 58 | 0 |
| Inverell.. | b | 71 | 37 | 0 |
| Bourke .. | b | 78 | 42 | 0 |
| Narrabri | b | 74 | 44 | 0 |
| Armidale | b | 66 | 30 | 0 |
| Bendem'r | b | 67 | 35 | 0 |
| Gunned'h | b | .. | .. | .. |
| Coonab'rn | b | 71 | 29 | 0 |
| P.Macqrie | m | 68 | 53 | 0 |
| Murr'undi | b | 46 | 39 | 0 |
| Cassilis.. | n | 41 | 31 | 0 |
| Mus'br'ok | b | 72 | 46 | 0 |
| Dubbo.... | b | 73 | 38 | 0 |
| Mudgee.. | b | 74 | 38 | 0 |
| Maitland. | b | 69 | 53 | 0 |
| Hill End. | . | .. | .. | .. |
| Newcastle | m | 70 | 47 | 0 |
| Orange.. | b | 54 | 32 | 0 |
| Bathurst. | b | 62 | 30 | 0 |
| Condob'ln | b | 55 | 44 | 0 |
| MtVict'ria | u | 59 | 38 | 0 |
| Forbes.... | b | 21 | 37 | 0 |
| SYDNEY... | c | 63 | 51 | 0 |
| 8 68 | | Ea | | |
| Picton | b | 64 | 44 | 0 |
| Wentw'th | b | 68 | 38 | 0 |
| Young... | b | 66 | 38 | 0 |
| Wollgo'ng | b | 67 | 49 | 0 |
| Moss Vale | b | 60 | 43 | 0 |
| Euston... | b | 80 | 31 | 0 |
| Goulburn | b | 67 | 33 | 0 |
| Wagga... | b | 68 | 34 | 0 |
| Cape Geo. | b | 64 | .. | 0 |
| Queanb'n | b | 65 | 38 | 0 |
| Deniliq'in | b | 64 | 32 | 0 |
| Moruya.. | b | 65 | 43 | 0 |
| Kiandra.. | b | 54 | 25 | 0 |
| Albury.. | b | 67 | 31 | 0 |
| Bodalla.. | b | 69 | 35 | 0 |
| Cooma... | n | 64 | 25 | 0 |
| Eden.... | b | 62 | 42 | 0 |
| Gabo Isl'd | b | 59 | 45 | 0 |



TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

28 30·17 R 70 Bo

FINE GENERALLY

W 14 30·28 F 54

0 30·26 F 46 D

0 30·29 R 45 AA

13 55

R
B 18 71
C 14 66
PM 14 58
N 3 59
S 4 58
Wg 14 60
CG 14 58
Ma 23 49
E 14 58
Go 13 54
WP 13 52
M 14 54
P 34 54
Re 18 56
A 23 58
13 63

Barometer has risen about ·14 on E Coast.

H.C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

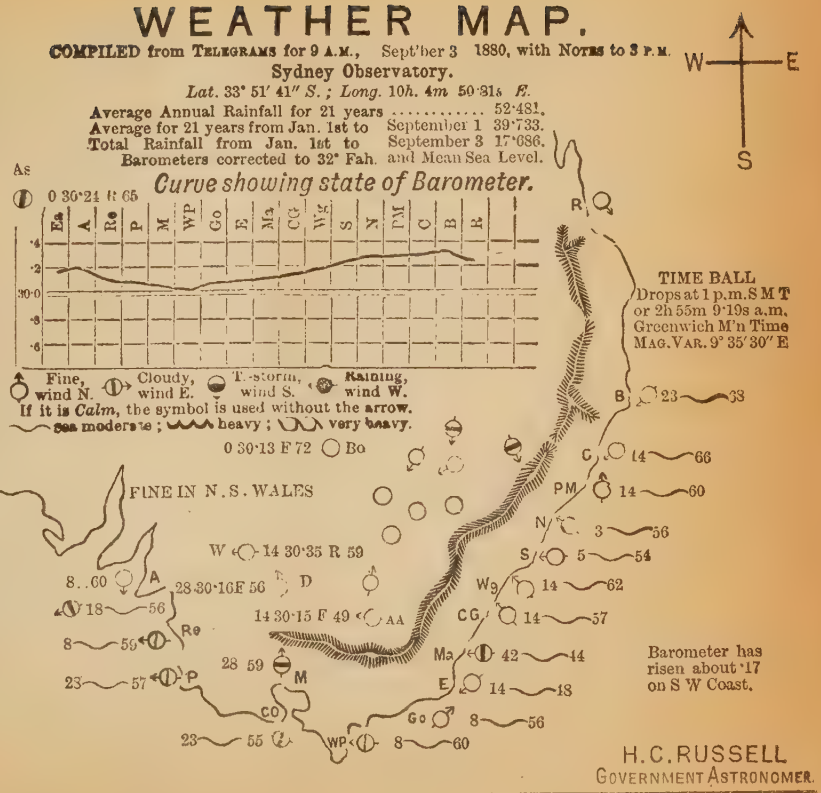
**COMPILED from TELEGRAMS for 9 A.M., Sept'ber 3 1880, with NOTES to 3 P.M.**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 3 17·686.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 78 | 52 | 0 |
| Tenterfild. | u | 69 | 39 | 0 |
| Moree.... | b | 72 | 59 | 0 |
| Grafton.. | b | 76 | 52 | 0 |
| Inverell.. | u | 71 | 32 | 0 |
| Bourke .. | b | 82 | 48 | 0 |
| Narrabri | b | 77 | 49 | 0 |
| Armidale | b | 66 | 29 | 0 |
| Bendem'r | b | 69 | 35 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 73 | 33 | 0 |
| P.Macqrie | m | 69 | 51 | 0 |
| Murr'undi | b | 65 | 41 | 0 |
| Cassilis.. | n | 70 | 31 | 0 |
| Mus'br'ok | b | 73 | 45 | 0 |
| Dubbo... | b | 65 | 42 | 0 |
| Mudgee.. | b | 78 | 43 | 0 |
| Maitland. | b | 67 | 55 | 0 |
| Hill End. | . | .. | .. | .. |
| Newcastle | b | 71 | 46 | 0 |
| Orange.. | b | 57 | 32 | 0 |
| Bathurst. | b | 68 | 31 | 0 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | b | 64 | 39 | 0 |
| Forbes... | b | 83 | 39 | 0 |
| SYDNEY. . | b | 64 | 48 | 0 |
| 8 63 | | Ea | | |
| Pictor | b | .. | .. | 0 |
| Wentw'th | b | 75 | 45 | 0 |
| Young... | b | 66 | 38 | 0 |
| Wollgo'ng | b | 68 | 44 | 0 |
| Moss Vale | b | 60 | 39 | 0 |
| Euston... | b | 78 | 41 | 0 |
| Goulburn | b | 70 | 29 | 0 |
| Wagga... | b | 69 | 36 | 0 |
| Cape Geo. | b | 63 | .. | 0 |
| Queanb'n | b | 66 | 32 | 0 |
| Deniliq'in | b | 67 | 40 | 0 |
| Moruya.. | b | 62 | 38 | 0 |
| Kiandra.. | b | 55 | 26 | 0 |
| Albury.. | b | 68 | 33 | 0 |
| Bodalla.. | b | 68 | 36 | 0 |
| Cooma... | n | 66 | 25 | 0 |
| Eden.... | b | 59 | 41 | 0 |
| Gabo Isl'd | b | 61 | 45 | 0 |



# WEATHER MAP.

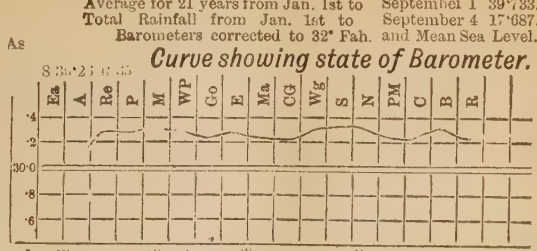
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 4 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 4 17·687.
Barometers corrected to 32° Fah. and Mean Sea Level.

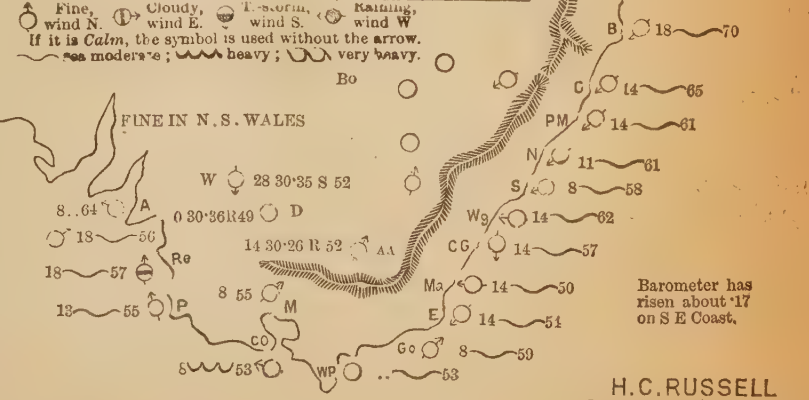
| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 84 | 50 | 0 |
| Tenterfild | b | 65 | 35 | 0·40 |
| Moree.... | b | 73 | 61 | 0 |
| Grafton.. | b | 77 | 55 | 0 |
| Inverell.. | b | 71 | 37 | 0·03 |
| Bourke .. | .. | .. | .. | .. |
| Narrabri | b | 76 | 53 | 0 |
| Armidale | b | 61 | 30 | 0 |
| Bendem'r | b | 72 | 43 | 0·03 |
| Gunned'h | b | 85 | 36 | 0 |
| Coonab'rn | b | 74 | 34 | 0 |
| P.Macqrie | b | 72 | 53 | 0 |
| Murr'undi | b | 68 | 45 | 0 |
| Cassilis.. | b | 73 | 3[illegible] | 0 |
| Mus'br'ok | b | 79 | 48 | 0 |
| Dubbo... | b | 69 | 45 | 0 |
| Mudgee.. | b | 77 | 39 | 0 |
| Maitland. | b | 78 | 56 | 0 |
| Hill End. | .. | .. | .. | .. |
| Newcastle | b | 65 | 49 | 0 |
| Orange.. | b | 61 | 36 | 0 |
| Bathurst. | b | 69 | 33 | 0 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | b | 65 | 42 | 0 |
| Forbes... | b | 83 | 43 | 0 |
| SYDNEY... | b | 66 | 53 | 0 |
| | | Ea | | |
| Pictor | b | 72 | 39 | 0 |
| Wentw'th | b | 77 | 41 | 0 |
| Young... | b | 68 | 41 | 0 |
| Wollgo'ng | b | 73 | 49 | 0 |
| Moss Vale | b | 78 | 41 | 0 |
| Euston... | b | 79 | 37 | 0 |
| Goulburn | b | 71 | 30 | 0 |
| Wagga... | b | 71 | 38 | 0 |
| Cape Geo. | b | 72 | .. | 0 |
| Queanb'n | b | 70 | 37 | 0 |
| Deniliq'in | b | 72 | 37 | 0 |
| Moruya.. | b | 67 | 43 | 0 |
| Kiandra.. | b | 54 | 25 | 0 |
| Albury.. | b | 57 | 36 | 0 |
| Bodalla.. | b | 79 | 35 | 0 |
| Cooma... | n | 66 | 26 | 0 |
| Eden.... | b | 65 | 46 | 0 |
| Gabo Isl'd | b | 67 | 49 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.




H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

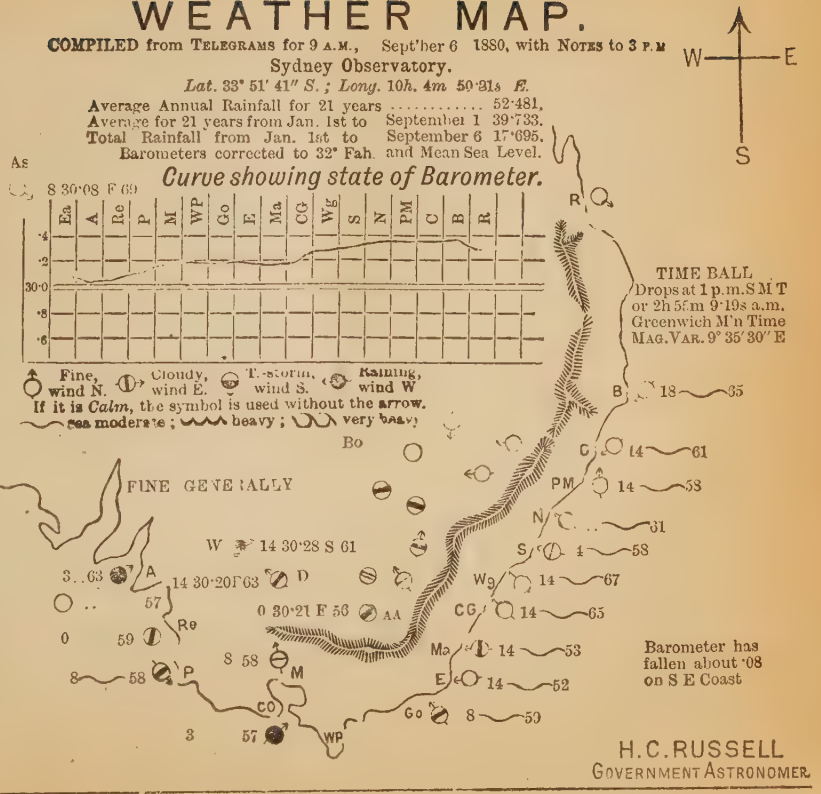
**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 6 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·21*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 6 17·695.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino. | b | 79 | 45 | 0 |
| Tenterfield | b | 69 | 28 | 0 |
| Moree.... | b | 72 | 59 | 0 |
| Grafton.. | b | 77 | 46 | 0 |
| Inverell.. | b | 73 | 34 | 0 |
| Bourke .. | .. | .. | .. | .. |
| Narrabri | .. | .. | .. | .. |
| Armidale | b | 67 | 30 | 0 |
| Bendem'r | b | 74 | 35 | 0 |
| Gunned'h | c | .. | .. | .. |
| Coonab'rn | b | 79 | 43 | 0 |
| P.Macqrie | b | 71 | 49 | 0 |
| Murr'undi | b | 72 | 40 | 0 |
| Cassilis. | b | 71 | 32 | 0 |
| Mus'br'ok | b | 79 | 50 | 0 |
| Dubbo... | c | 73 | 45 | 0 |
| Mudgee.. | b | 83 | 38 | 0 |
| Maitland. | b | 72 | 57 | 0 |
| Hill End. | .. | .. | .. | .. |
| Newcastle | b | 69 | 50 | 0 |
| Orange. | u | 61 | 35 | 0 |
| Bathurst. | u | 74 | 33 | 0 |
| Condob'lin | .. | .. | .. | .. |
| MtVict'ria | b | 69 | 47 | 0 |
| Forbes... | u | 92 | 42 | 0 |
| SYDNEY... | c | 65 | 52 | 0·01 |
| 18 63 | | Ea | | |
| Picton | b | 67 | .. | 0 |
| Wentw'th | r | 87 | 58 | 0 |
| Young... | u | 79 | 52 | 0 |
| Wollgo'ng | b | 72 | 47 | 0 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | u | 87 | 54 | 0 |
| Goulburn | b | 76 | 41 | 0 |
| Wagga... | u | 77 | 39 | 0 |
| Cape Geo. | b | 66 | .. | 0 |
| Queanb'n | c | 73 | 31 | 0 |
| Deniliq'in | u | 66 | 24 | 0 |
| Moruya.. | b | 64 | 46 | 0 |
| Kiandra.. | c | 55 | 26 | 0 |
| Albury.. | u | 77 | 36 | 0 |
| Bodalla.. | b | 72 | 41 | 0 |
| Cooma... | c | 74 | 38 | 0 |
| Eden.... | b | 60 | 47 | 0 |
| Gabo Isl'd | b | 63 | 51 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 7 1880, with NOTES to 3 P.M.

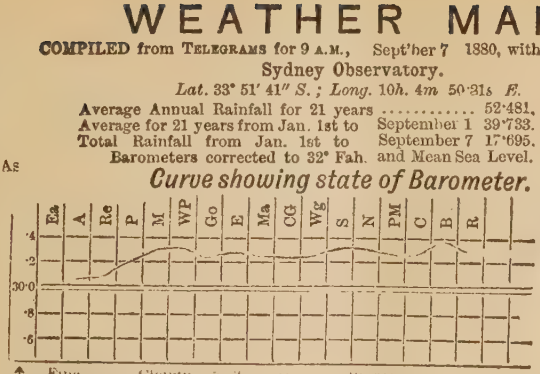
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 7 17·695.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino. | b | 78 | 40 | 0 |
| Tenterfild | b | 64 | 27 | 0 |
| Moree.... | b | 71 | 59 | 0 |
| Grafton.. | b | 75 | 47 | 0 |
| Inverell.. | b | 72 | 40 | 0 |
| Bourke .. | b | 90 | 57 | 0 |
| Narrabri | b | 79 | 47 | 0 |
| Armidale | b | 67 | 36 | 0 |
| Bendem'r | b | 75 | 37 | 0 |
| Gunned'h | b | 88 | 36 | 0 |
| Coonab'rn | b | 79 | 39 | 0 |
| P.Macqrie | b | 71 | 50 | 0 |
| Murr'undi | b | 73 | 45 | 0 |
| Cassilis.. | b | 78 | 43 | 0 |
| Mus'br'ok | b | 83 | 50 | 0 |
| Dubbo... | b | 74 | 49 | 0 |
| Mudgee.. | b | 82 | 47 | 0 |
| Maitland. | b | 76 | .. | 0 |
| Hill End. | .. | .. | .. | .. |
| Newcastle | b | 72 | 51 | 0 |
| Orange.. | .. | .. | .. | .. |
| Bathurst. | b | 72 | 39 | 0 |
| Condob'in | u | 65 | 54 | 0 |
| Mt Vict'ria | c | 72 | 47 | 0 |
| Forbes... | c | 78 | 52 | 0 |
| SYDNEY... | c | 69 | 54 | 0 |
| | Ea | | | |
| Pictor | .. | .. | .. | .. |
| Wentw'th | u | 72 | 58 | 0 |
| Young... | u | 70 | 54 | 0 |
| Wollgo'ng | u | 74 | 55 | 0 |
| Moss Vale | u | 72 | 49 | 0 |
| Euston... | u | 71 | 61 | 0·06 |
| Goulburn | o | 70 | 47 | 0 |
| Wagga... | u | 61 | 56 | 0·07 |
| Cape Geo. | u | 75 | .. | 0 |
| Queanb'n | c | 72 | 52 | 0 |
| Deniliq'in | g | 67 | 54 | 0·30 |
| Moruya.. | p | 71 | 51 | 0·22 |
| Kiandra.. | p | 55 | 26 | 0 |
| Albury.. | u | 64 | 53 | 0·52 |
| Bodalla.. | r | 84 | 53 | 0·17 |
| Cooma... | c | 74 | 49 | 0·07 |
| Eden.... | r | 63 | 56 | 0·15 |
| Gabo Isl'd | r | 79 | 55 | 0·15 |

## *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

28 30·23..71 Bo

CLOUDY & SHOWRY ON S COAST

W 14 30·39 R 63

3..59 A 14 30·28 R 59 D

9 56

8 57 Re

0 30·29 R 59 AA

3 60

34 57 P M

CO

WP 28 54

Ma 0 57

E 14 57

Go 8 57

CG 0 63

W9 14 62

S 1 62

N 5 62

PM 14 58

C 14 61

B 3 65

R

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about ·10 on S E Coast

W — E

S

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 8 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 8 17·695.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 91 | 47 | 0 |
| Tenterfild. | b | 75 | 33 | 0 |
| Moree.... | b | 73 | 61 | 0 |
| Grafton.. | b | 77 | 50 | 0 |
| Inverell.. | b | 76 | 45 | 0 |
| Bourke .. | c | 85 | 53 | 0 |
| Narrabri | b | 80 | 58 | 0 |
| Armidale | b | 70 | 38 | 0 |
| Bendem'r | b | 77 | 40 | 0 |
| Gunned'h | b | 91 | 42 | 0 |
| Coonab'rn | b | 80 | 42 | 0 |
| P.Macqrie | b | 71 | 54 | 0 |
| Murr'undi | b | 76 | 49 | 0 |
| Cassilis. | u | 79 | 47 | 0 |
| Mus'br'ok | b | 85 | 62 | 0 |
| Dubbo... | c | 71 | 53 | 0 |
| Mudgee.. | c | 85 | 55 | 0 |
| Maitland. | c | 76 | .. | 0 |
| Hill End. | . | .. | .. | .. |
| Newcastle | u | 77 | 51 | 0 |
| Orange.. | b | 66 | 47 | 0 |
| Bathurst. | b | 75 | 45 | 0 |
| Condob'lin | b | 63 | 55 | 0 |
| Mt Vict'ria | c | 73 | 45 | 0 |
| Forbes... | u | 84 | 52 | 0 |
| SYDNEY. . | c | 74 | 60 | 0 |
| 13 60 | | Ea | | |
| Picton | u | 78 | 31 | 0 |
| Wentw'th | u | 84 | 60 | 0 |
| Young... | c | 79 | 55 | 0 |
| Wollgo'ng | u | 69 | 58 | 0 |
| Moss Vale | f | 73 | 49 | 0 |
| Euston... | u | 84 | 61 | 0 |
| Goulburn | f | 81 | 48 | 0 |
| Wagga... | g | 71 | 54 | 0 |
| Cape Geo. | g | 69 | .. | 0 |
| Queanb'n | b | 70 | 51 | 0 |
| Deniliq'in | b | 71 | 55 | 0 |
| Moruya.. | d | 74 | 61 | 0 |
| Kiandra.. | b | 55 | 26 | 0 |
| Albury.. | c | 62 | 51 | 0 |
| Bodalla.. | u | 70 | 54 | 0·03 |
| Cooma... | c | 62 | 47 | 0·05 |
| Eden.... | p | 62 | 57 | 0·12 |
| Gabo Isl'd | g | 60 | 55 | 0 |

As

## *Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

30·4 30·2 30·0 29·8 29·6

Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy.

23 30·28 R 75 Bo

CLOUDY GENERALLY

W 42 30·39 S 70

3..58 A 14 30·32 S63 D

13 58 Re

0 60

0 30·36 R 60 AA

8 64 M

13 60 P

13 58 CO

WP 28 55

Go 23 57

E 14 57

Ma 14 57

CG 14 58

Wg 14 62

S 8 62

N 9 63

PM 14 63

C 14 62

B 18 65

R

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about ·16 on E Coast

W E S

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

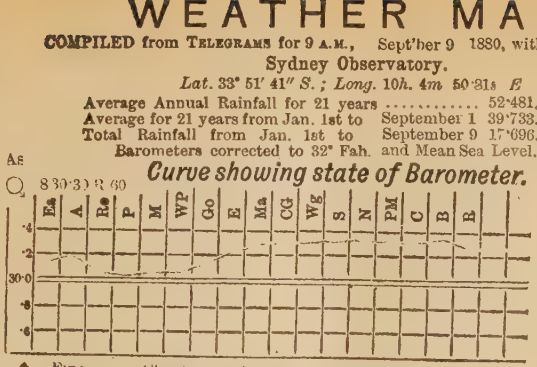
**COMPILED from TELEGRAMS for 9 A.M., Sept'ber 9 1880, with NOTES to 3 P.M.**

**Sydney Observatory.**

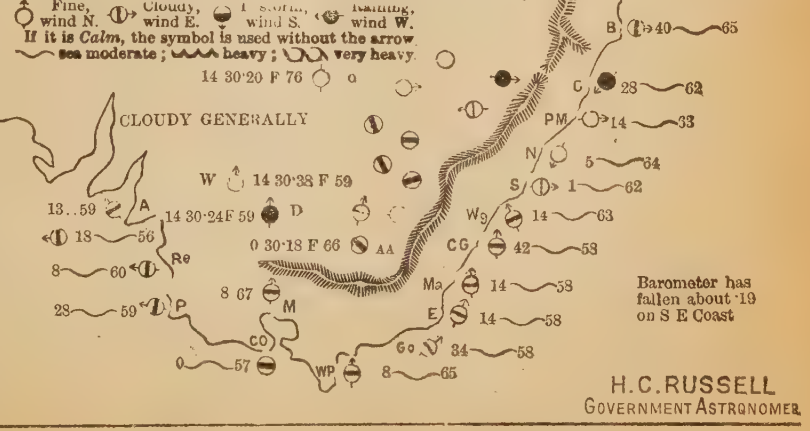
*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s* *E*

**Average Annual Rainfall for 21 years ..... 52·481.**
**Average for 21 years from Jan. 1st to September 1 39·733.**
**Total Rainfall from Jan. 1st to September 9 17·696.**
**Barometers corrected to 32° Fah. and Mean Sea Level.**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 78 | 50 | 0 |
| Tenterfild | d | 69 | 39 | 0 |
| Moree.... | p | 73 | 62 | 0 |
| Grafton.. | u | 73 | 54 | 0·04 |
| Inverell.. | b | 77 | 47 | 0 |
| Bourke .. | b | 85 | 56 | 0 |
| Narrabri | b | 80 | 61 | 0 |
| Armidale | b | 68 | 44 | 0 |
| Bendem'r | b | 78 | 46 | 0 |
| Gunned'h | c | 93 | 46 | 0 |
| Coonab'rn | u | 81 | 48 | 0 |
| P.Macqrie | u | 72 | 50 | 0 |
| Murr'undi | u | 73 | 55 | 0 |
| Cassilis.. | u | 74 | 56 | 0 |
| Mus'br'ok | u | 80 | 60 | 0 |
| Dubbo... | u | 77 | 60 | 0 |
| Mudgee.. | u | 75 | 56 | 0 |
| Maitland. | u | 74 | .. | 0 |
| Hill End. | .. | .. | .. | .. |
| Newcastle | b | 76 | 52 | 0 |
| Orange.. | u | 69 | 58 | 0 |
| Bathurst. | u | 75 | 48 | 0 |
| Condob'ln | c | 67 | 57 | 0 |
| Mt Vict'ria | b | 70 | 50 | 0 |
| Forbes... | u | 86 | 53 | 0 |
| SYDNEY. . | c | 66 | 57 | 0 |
| 18 70 Pictor | f | 71 | 56 | 0 |
| Wentw'th | b | 83 | 58 | 0·15 |
| Young... | u | 75 | 56 | 0 |
| Wollgo'ng | g | 67 | 53 | 0 |
| Moss Vale | u | 66 | 51 | 0 |
| Euston... | o | 86 | 57 | 0·07 |
| Goulburn | o | 74 | 51 | 0 |
| Wagga... | o | 80 | 57 | 0 |
| Cape Geo. | c | 64 | .. | 0 |
| Queanb'n | u | 73 | 54 | 0 |
| Deniliq'in | r | 81 | 52 | 0 |
| Moruya.. | u | 66 | 56 | 0 |
| Kiandra.. | b | 55 | 26 | 0 |
| Albury.. | c | 78 | 53 | 0 |
| Bodalla.. | u | 70 | 56 | 0 |
| Cooma... | c | 73 | 42 | 0 |
| Eden.... | u | 60 | 56 | 0 |
| Gabo Isl'd | o | 61 | 56 | 0 |




Fine, wind N. Cloudy, wind E. [illegible] wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate ; heavy ; very heavy.




W E S

H.C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

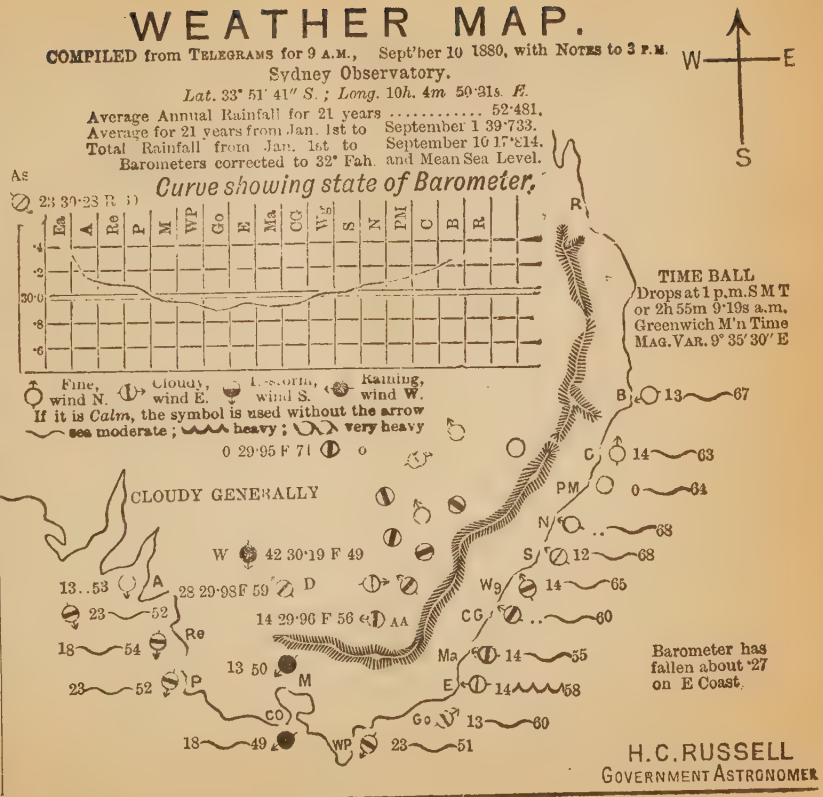
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 10 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s.* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 10 17·814.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 74 | 45 | 0 |
| Tenterfild | b | 67 | 32 | 0 |
| Moree.... | b | 71 | 62 | 0 |
| Grafton.. | b | 73 | 55 | 0 |
| Inverell.. | b | 71 | 42 | 0 |
| Bourke .. | b | 85 | 58 | 0 |
| Narrabri | c | 72 | 63 | 0 |
| Armidale | b | 69 | 40 | 0 |
| Bendem'r | u | 72 | 42 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | u | 76 | 51 | 0 |
| P.Macqrie | m | 71 | 57 | 0 |
| Murr'undi | o | 72 | 57 | 0 |
| Cassilis. | u | 73 | 55 | 0 |
| Mus'br'ok | b | 82 | 61 | 0 |
| Dubbo... | u | 76 | 45 | 0·11 |
| Mudgee.. | u | 77 | 53 | 0·11 |
| Maitland. | b | 80 | .. | 0 |
| Hill End. | .. | .. | .. | .. |
| Newcastle | b | 73 | 59 | 0 |
| Orange. | b | 67 | 46 | 0·31 |
| Bathurst. | b | 68 | 53 | 0·17 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | b | 64 | 49 | 0·13 |
| Forbes... | u | 81 | 44 | 0·06 |
| SYDNEY. . | c | 69 | 59 | 0·12 |
| 40 56 | | Ea | | |
| Pictor | b | 75 | 54 | 0·25 |
| Wentw'th | r | 76 | 45 | 0·09 |
| Young... | c | 70 | 43 | 0 |
| Wollgo'ng | c | 69 | 54 | 0 |
| Moss Vale | u | 69 | 48 | 0·50 |
| Euston... | u | 76 | 54 | 0 |
| Goulburn | o | 75 | 46 | 0·14 |
| Wagga... | .. | .. | .. | .. |
| Cape Geo. | c | 65 | .. | 0·09 |
| Queanb'n | c | 70 | 45 | 0·17 |
| Deniliq'in | u | 68 | 51 | 0·28 |
| Moruya.. | b | 65 | 52 | 0·48 |
| Kiandra.. | q | 55 | 26 | 0 |
| Albury.. | u | 73 | 50 | 0·03 |
| Bodalla.. | b | 72 | 44 | 0·46 |
| Cooma... | c | 75 | 41 | 0·24 |
| Eden.... | c | 63 | 50 | 0·09 |
| Gabo Isl'd | u | 62 | 55 | 0·11 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., Sept'ber 11 1880, with NOTES to 3 P.M.**

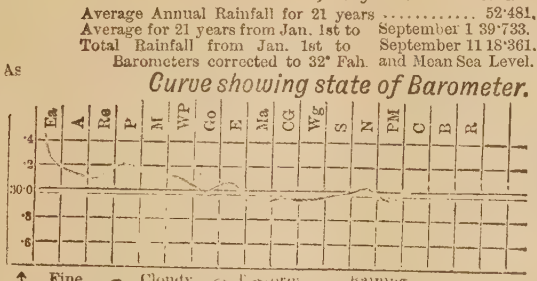
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 11 18·361.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 85 | 45 | 0 |
| Tenterfild | b | 73 | 40 | 0 |
| Moree.... | b | 74 | 64 | 0 |
| Grafton... | b | 74 | 54 | 0 |
| Inverell.. | u | 72 | 50 | 0 |
| Bourke .. | c | 83 | 50 | 0·05 |
| Narrabri | p | 80 | 76 | 0·01 |
| Armidale | b | 69 | 40 | 0 |
| Bendem'r | u | 69 | 42 | 0 |
| Gunned'h | r | 85 | 40 | 0·47 |
| Coonab'rn | u | 73 | 54 | 1·37 |
| P.Macqrie | m | 72 | 61 | 0 |
| Murr'undi | r | 72 | 52 | 0·43 |
| Cassilis.. | p | 73 | 56 | 2·18 |
| Mus'br'ok | r | 85 | 63 | 0·14 |
| Dubbo... | u | 70 | 51 | 1·44 |
| Mudgee.. | u | 72 | 54 | 1·50 |
| Maitland. | c | 80 | .. | 0 |
| Hill End. | c | 68 | 51 | 1·25 |
| Newcastle | u | 76 | 58 | 0·08 |
| Orange.. | u | 65 | 48 | 1·20 |
| Bathurst. | r | 65 | 50 | 0·99 |
| Condob'lin | .. | .. | .. | .. |
| MtVict'ria | r | 66 | 46 | 1·06 |
| Forbes... | p | 80 | 47 | 0·43 |
| SYDNEY.. | d | 77 | 58 | 0·55 |
| Ea | | | | |
| Picton | r | 75 | 53 | 0·63 |
| Wentw'th | r | 52 | 42 | 0 |
| Young... | c | 69 | 53 | 0·66 |
| Wollgo'ng | c | 73 | 56 | 0·30 |
| Moss Vale | r | 67 | 50 | 0·44 |
| Euston... | r | 53 | 47 | 0 |
| Goulburn | r | 70 | 47 | 0·63 |
| Wagga... | u | 73 | 54 | 0·12 |
| Cape Geo. | p | 66 | . | 0·55 |
| Queanb'n | r | 67 | 50 | 1·10 |
| Deniliq'in | p | 69 | 43 | 0·51 |
| Moruya.. | r | 72 | 54 | 1·82 |
| Kiandra.. | r | 52 | 19 | 1·25 |
| Albury.. | u | 70 | 51 | 0·10 |
| Bodalla.. | r | 77 | 50 | 1·72 |
| Cooma... | r | 68 | 41 | 0·30 |
| Eden.... | r | 62 | 54 | 0·65 |
| Gabo Isl'd | q | 63 | 55 | 0·24 |

## *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. Thunder-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

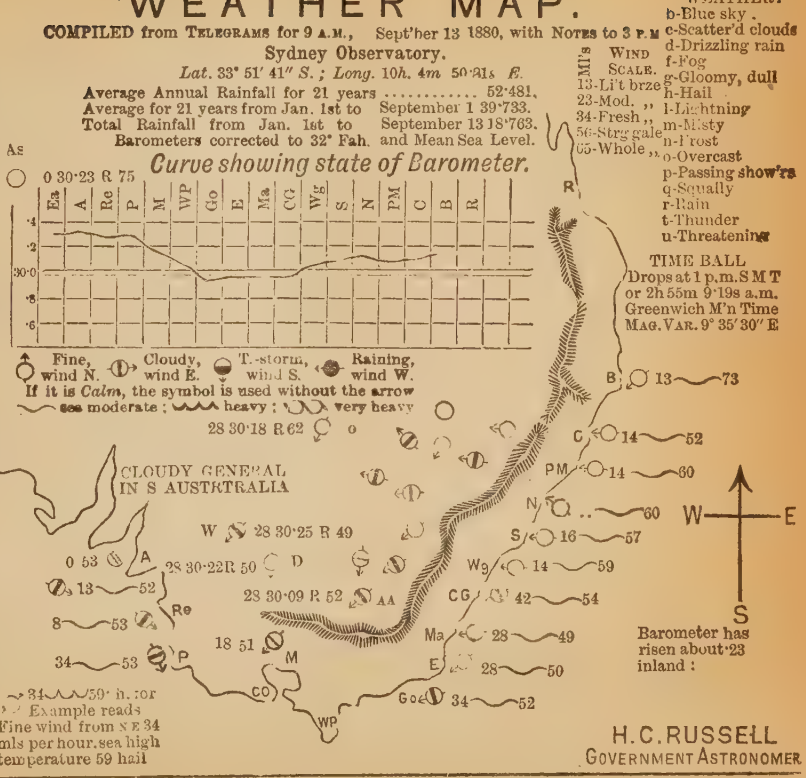
**COMPILED from TELEGRAMS for 9 A.M., Sept'ber 13 1880, with NOTES to 3 P.M**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

**Average Annual Rainfall for 21 years ..... 52·481.**
**Average for 21 years from Jan. 1st to September 1 39·733.**
**Total Rainfall from Jan. 1st to September 13 18·763.**
**Barometers corrected to 32° Fah. and Mean Sea Level.**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | .. | .. | .. | .. |
| Tenterfild | b | 64 | 31 | 0·40 |
| Moree.... | b | 60 | 51 | 0·40 |
| Grafton.. | b | 70 | 50 | 0 |
| Inverell.. | b | 62 | 35 | 0·98 |
| Bourke .. | b | 67 | 45 | 0 |
| Narrabri | b | 65 | 46 | 0 |
| Armidale | b | 70 | 39 | 0·22 |
| Bendem'r | b | 67 | 32 | 0·02 |
| Gunned'h | b | 66 | 35 | 0·67 |
| Coonab'rn | b | 57 | 33 | 0·24 |
| P.Macqrie | b | 70 | 39 | 0 |
| Murr'undi | c | 63 | 45 | 1·70 |
| Cassilis.. | u | 64 | 36 | 0 |
| Mus'br'ok | u | 69 | 54 | 0·91 |
| Dubbo... | u | 67 | 43 | 0·31 |
| Mudgee.. | u | 68 | 41 | 0·52 |
| Maitland. | u | 69 | .. | 0·42 |
| Hill End. | c | 60 | 39 | 0·86 |
| Newcastle | b | 70 | 52 | 0 |
| Orange. | c | 58 | 35 | 1·28 |
| Bathurst. | u | 62 | 37 | 0·46 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | u | 50 | 37 | 0·45 |
| Forbes... | u | 68 | 39 | 0.77 |
| SYDNEY. . | b | 64 | 52 | 0·10 |
| 8 58 | | Ea | | |
| Pictor | b | 45 | 29 | 0 |
| Wentw'th | g | 58 | 44 | 0 |
| Young... | g | 56 | 45 | 0·47 |
| Wollgo'ng | b | 64 | 49 | 0 |
| Moss Vale | b | 73 | 45 | 0 |
| Euston... | b | 64 | 41 | 0·63 |
| Goulburn | o | 51 | 41 | 0·68 |
| Wagga... | p | 58 | 46 | 0·33 |
| Cape Geo. | b | 6 | . | 0 |
| Queanb'n | b | 64 | 41 | 1·01 |
| Deniliq'in | b | 58 | 39 | 0·63 |
| Moruya.. | b | 64 | 44 | 0·18 |
| Kiandra.. | b | 38 | 16 | 1·20 |
| Albury.. | c | 64 | 42 | 0·97 |
| Bodalla.. | b | 64 | 37 | 0 |
| Cooma... | u | 55 | 32 | 0·64 |
| Eden.... | b | 61 | 47 | 0 |
| Gabo Isl'd | b | 61 | 48 | 0 |




**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about ·23 inland :

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

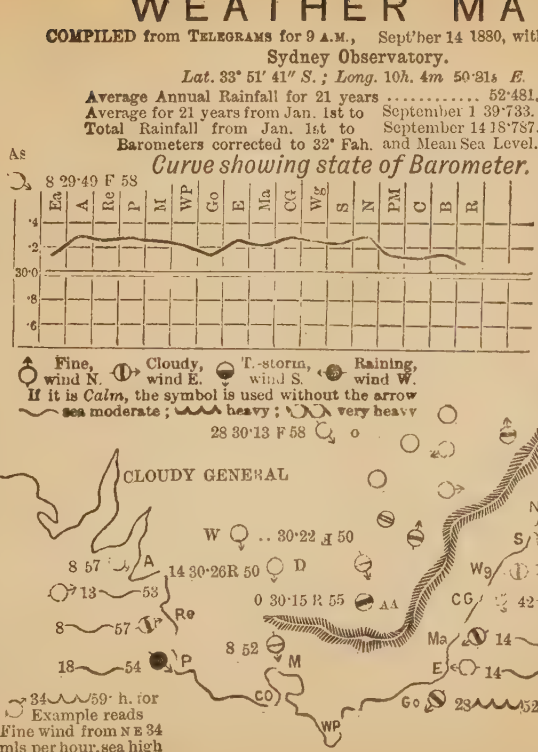
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 14 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 14 18·787.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 82 | 45 | 0 |
| Tenterfild. | b | 67 | 28 | 0 |
| Moree.... | b | 63 | 52 | 0 |
| Grafton.. | u | 73 | 54 | 0 |
| Inverell.. | b | 64 | 35 | 0 |
| Bourke .. | b | 74 | 45 | 0 |
| Narrabri | b | 69 | 48 | 0 |
| Armidale | b | 61 | 32 | 0 |
| Bendem'r | b | 65 | 37 | 0 |
| Gunned'h | b | 79 | 33 | 0 |
| Coonab'rn | b | 69 | 33 | 0 |
| P.Macqrie | b | 72 | 55 | 0 |
| Murr'undi | b | 62 | 42 | 0 |
| Cassilis.. | n | 59 | 37 | 0 |
| Mus'br'ok | b | 69 | 49 | 0 |
| Dubbo... | b | 59 | 43 | 0 |
| Mudgee.. | b | 60 | 44 | 0 |
| Maitland. | u | 68 | .. | 0 |
| Hill End. | b | 62 | 36 | 0 |
| Newcastle | u | 70 | 56 | 0 |
| Orange.. | .. | .. | .. | .. |
| Bathurst. | u | 52 | 41 | 0 |
| Condob'lin | b | 58 | 45 | 0 |
| MtVict'ria | u | 57 | 41 | 0·03 |
| Forbes... | b | 78 | 46 | 0 |
| SYDNEY. . | u | 66 | 54 | 0.02 |
| Picton | u | 65 | 50 | 0 |
| Wentw'th | b | 61 | 43 | 0 |
| Young... | b | 57 | 43 | 0 |
| Wollgo'ng | u | 70 | 51 | 0 |
| Moss Vale | r | 56 | 44 | 0 |
| Euston... | o | 65 | 41 | 0 |
| Goulburn | u | 59 | 35 | 0 |
| Wagga... | u | 66 | 46 | 0 |
| Cape Geo. | c | 64 | .. | 0 |
| Queanb'n | b | 61 | 41 | 0 |
| Denliq'in | b | 62 | 38 | 0 |
| Moruya.. | u | 65 | 48 | 0·06 |
| Kiandra.. | f | 38 | 16 | 0 |
| Albury.. | c | 61 | 41 | 0·03 |
| Bodalla.. | b | 69 | 46 | 0 |
| Cooma... | c | 57 | 35 | 0 |
| Eden.... | b | 62 | 46 | 0 |
| Gabo Isl'd | g | 55 | 50 | 0 |




**WIND SCALE.**
Mls
13-Li't brze
23-Mod.
34-Fresh ,,
56-Strg gale
65-Whole ,,

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about·21 on E coast :

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 15 1880, with **NOTES** to 3 P.M

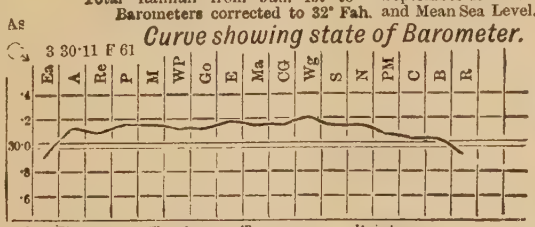
**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 15 18·954.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | r | 75 | 56 | 0·21 |
| Tenterfield | r | 64 | 41 | 0·45 |
| Moree.... | r | 71 | 58 | 0·15 |
| Grafton.. | r | 65 | 59 | 0·10 |
| Inverell.. | p | 71 | 50 | 0·35 |
| Bourke .. | r | 74 | 50 | 1·50 |
| Narrabri | u | 69 | 55 | 0 |
| Armidale | u | 66 | 31 | 0 |
| Bendem'r | u | 71 | 39 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | r | 74 | 45 | 0 |
| P.Macqrie | r | 70 | 61 | 0·72 |
| Murr'undi | g | 66 | 49 | 0 |
| Cassilis.. | o | 63 | 44 | 0 |
| Mus'br'ok | u | 74 | 59 | 0 |
| Dubbo... | u | 65 | 45 | 0 |
| Mudgee.. | u | 71 | 52 | 0 |
| Maitland. | g | 68 | .. | 0 |
| Hill End. | c | 57 | 45 | 0 |
| Newcastle | c | 62 | 55 | 0·44 |
| Orange.. | g | 59 | 38 | 0 |
| Bathurst. | g | 60 | 46 | 0 |
| Condob'lin | u | 56 | 49 | 0 |
| MtVict'ria | r | 54 | 42 | 0·10 |
| Forbes... | b | 79 | 45 | 0 |
| SYDNEY.. | d | 59 | 53 | 0·17 |
| 28 73 | Ea | | | |
| Picton | g | 69 | 56 | 0 |
| Wentw'th | b | 68 | 39 | 0 |
| Young... | c | 62 | 47 | 0 |
| Wollgo'ng | p | 59 | 51 | 0·08 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | b | 76 | 42 | 0 |
| Goulburn | u | 59 | 44 | 0·03 |
| Wagga... | b | 62 | 50 | 0 |
| Cape Geo. | c | 57 | .. | 0 |
| Queamb'n | b | 57 | 47 | 0 |
| Deniliq'in | b | 64 | 39 | 0 |
| Moruya.. | g | 52 | 50 | 0·04 |
| Kiandra.. | b | 50 | 23 | 0 |
| Albury.. | c | 69 | 42 | 0 |
| Bodalla.. | g | 65 | 45 | 0 |
| Cooma... | g | 64 | 37 | 0 |
| Eden.... | u | 59 | 49 | 0 |
| Gabo Is'd | c | 63 | 49 | 0 |

## *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
*If* it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

**WIND SCALE.**
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about·09 on E coast :

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 16 1880, with **NOTES** to 3 P.M

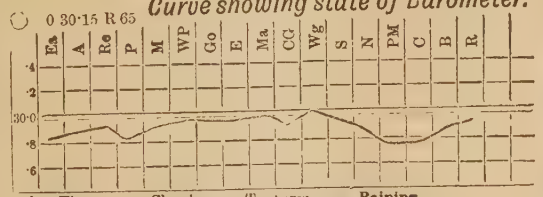
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 16 20·990.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Weth | Max. | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 68 | 54 | 0·80 |
| Tenterfld | c | 57 | 31 | 1·20 |
| Moree.... | u | 63 | 57 | 2·03 |
| Grafton.. | b | 65 | 54 | 1·00 |
| Inverell.. | u | 71 | 45 | 0·75 |
| Bourke .. | b | 71 | 50 | 0·36 |
| Narrabri | u | 67 | 55 | 0 |
| Armidale | u | 61 | 30 | 1.14 |
| Bendem'r | u | 6 | 48 | 0·88 |
| Gunned'h | r | 61 | 41 | 0·04 |
| Coonab'rn | u | 61 | 51 | 0·97 |
| P.Macqrie | b | 66 | 52 | 3·20 |
| Murr'undi | u | 69 | 54 | 0·39 |
| Cassilis. | r | 68 | 54 | 0·34 |
| Mus'br'ok | r | 62 | 60 | 0·27 |
| Dubbo... | c | 65 | 54 | 0 |
| Mudgee.. | u | 69 | 49 | 0 |
| Maitland. | r | 68 | .. | 1·90 |
| Hill End. | b | 55 | 45 | 0 |
| Newcastle | q | 65 | 53 | 1·67 |
| Orange. | g | 59 | 46 | 0 |
| Bathurst. | g | 60 | 50 | 0 |
| Condob'lin | b | 61 | 49 | 0 |
| MtVict'ria | rf | 49 | 43 | 0·43 |
| Forbes... | b | 79 | 48 | 0 |
| SYDNEY. . | u | 60 | 56 | 2·04 |
| 23 72 | | Ea | | |
| Picton | d | 59 | 52 | 0 46 |
| Wentw'th | b | 68 | 39 | 0 |
| Young... | b | 64 | 49 | 0 |
| Wollgo'ng | u | 57 | 52 | 1·80 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | b | 76 | 36 | 0 |
| Goulburn | g | 49 | 44 | 0·02 |
| Wagga... | b | 71 | 47 | 0 |
| Cape Geo. | r | 58 | . | 0·22 |
| Queanb'n | c | 54 | 49 | 0 |
| Deniliq'in | b | 68 | 41 | 0 |
| Moruya.. | u | 58 | 53 | 0 |
| Kiandra.. | b | 45 | 24 | 0 |
| Albury.. | b | 71 | 40 | 0 |
| Bolalia.. | u | 64 | 50 | 0 |
| Cooma... | c | 57 | 41 | 0 |
| Eden.... | u | 59 | 49 | 0 |
| Gabo Isl'd | c | 64 | 52 | 0 |

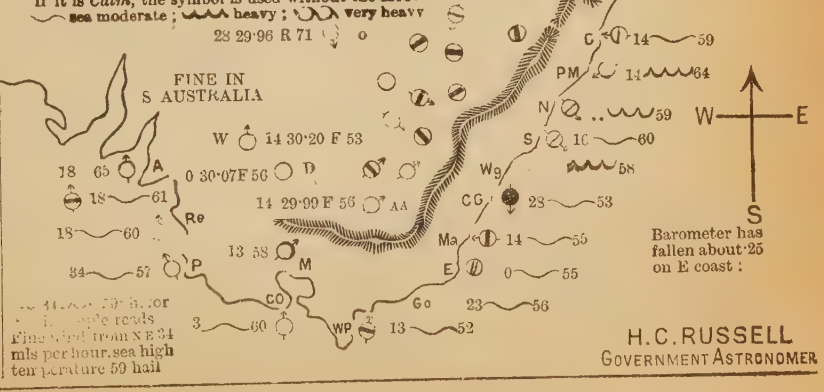
## Curve showing state of Barometer.




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy




Fine wind from N E 34 mls per hour, sea high ten perature 59 hail

TIME BALL Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·25 on E coast :

**WEATHER.**

b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showrs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND'S SCALE.
13-Lft brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
55-Whole ,,

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 17 1880, with NOTES to 3 P.M.

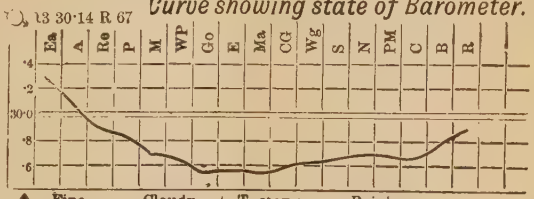
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to September 1 39·733.
**Total** Rainfall from Jan. 1st to September 17 21·696.
**Barometers** corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 78 | 56 | 0 |
| Tenterfild | b | 56 | 37 | 0 |
| Moree.... | b | 62 | 52 | 0 |
| Grafton.. | b | 69 | 56 | 0 |
| Inverell.. | b | 64 | 54 | 0·03 |
| Bourke .. | b | 75 | 51 | 0 |
| Narrabri | b | 66 | 55 | 0 |
| Armidale | u | 61 | 31 | 0·05 |
| Bendem'r | u | 65 | 43 | 0·16 |
| Gunned'h | u | 69 | 48 | 0·04 |
| Coonab'rn | b | 66 | 13 | 0 |
| P.Macqrie | b | 71 | 59 | 0·39 |
| Murr'undi | p | 60 | 54 | 0·25 |
| Cassilis.. | b | 68 | 48 | 0·09 |
| Mus'br'ok | b | 64 | 55 | 0·16 |
| Dubbo... | b | 69 | 51 | 0 |
| Mudgee.. | u | 70 | 51 | 0 |
| Maitland. | b | 62 | 37 | 0·86 |
| Hill End. | c | 56 | 45 | 0 |
| Newcastle | b | 63 | 54 | 2·41 |
| Orange.. | c | 61 | 42 | 0 |
| Bathurst. | u | 61 | 44 | 0 |
| Condob'ln | u | 62 | 51 | 0 |
| MtVict'ria | b | 52 | 44 | 0·14 |
| Forbes... | u | 79 | 40 | 0 |
| SYDNEY. . | b | 61 | 54 | 0·11 |
| 13 60 | | Ea | | |
| Pictor | b | 63 | 46 | 0 |
| Wentw'th | q | 77 | 43 | 0·03 |
| Young... | u | 69 | 47 | 0 |
| Wollgo'ng | c | 62 | 49 | 0·08 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | o | 79 | 45 | 0 |
| Goulburn | b | 59 | 41 | 0·01 |
| Wagga... | r | 71 | 56 | 0 |
| Cape Geo. | b | 62 | . | 0 |
| Queanb'n | f | 63 | 47 | 0 |
| Deniliq'in | u | 70 | 49 | 0·10 |
| Moruya.. | b | 62 | 50 | 0 |
| Kiandra.. | b | 30 | 15 | 0 |
| Albury.. | c | 75 | 45 | 0 |
| Bodalla.. | b | 68 | 46 | 0·02 |
| Cooma... | f | 67 | 36 | 0 |
| Eden.... | b | 59 | 49 | 0 |
| Gabo Isl'd | b | 65 | 53 | 0 |

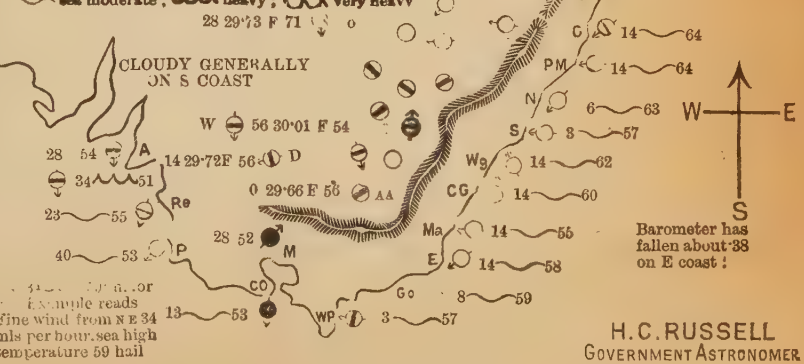
## *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy




Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

Mls WIND SCALE.
1-Lit brze
23-Mod. ,,
34-Fresh ,,
-Strg gale
5-Whole ,,

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·38 on E coast!

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M.,** Sept'ber 18 1880, with NOTES to 3 P.M.

## Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·21*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 18 22·013.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 82 | 51 | 0 |
| Tenterfild | b | 6? | 35 | 0 |
| Moree.... | u | 69 | 51 | 0 |
| Grafton.. | b | 74 | 55 | 0 |
| Inverell.. | u | 68 | 43 | 0 |
| Bourke .. | o | 74 | 48 | 0 |
| Narrabri | b | 74 | 53 | 0 |
| Armidale | u | 61 | 56 | 0 |
| Bendem'r | r | 68 | 47 | 0·02 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 71 | 47 | 0 |
| P.Macqrie | b | 74 | 52 | 0·10 |
| Murr'undi | u | 65 | 51 | 0 |
| Cassilis.. | c | 59 | 37 | 0 |
| Mus'br'ok | g | 75 | 57 | 0·11 |
| Dubbo... | b | 70 | 48 | 0·04 |
| Mudgee.. | p | 69 | 50 | 0 |
| Maitland. | r | 72 | .. | 0·07 |
| Hill End. | u | 54 | 39 | 0·14 |
| Newcastle | r | 70 | 52 | 0·11 |
| Orange.. | g | 60 | 40 | 0·51 |
| Bathurst. | g | 63 | 44 | 0·32 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | p | 60 | 41 | 0·19 |
| Forbes... | b | 70 | 42 | 0·09 |
| SYDNEY. . | d | 70 | 53 | 0·35 |
| 0 60 | | Ea | | |
| Picton | g | 69 | 48 | 2·26 |
| Wentw'th | b | 64 | 39 | 0 |
| Young... | c | 62 | 44 | 0·30 |
| Wollg'ng | c | 72 | 53 | 0·01 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | b | 66 | 43 | 0 |
| Goulburn | g | 61 | 43 | 0·08 |
| Wagga... | b | 67 | 42 | 0·27 |
| Cape Geo. | c | 66 | . | 0·05 |
| Queanb'n | b | 59 | 40 | 0·10 |
| Deniliq'in | g | 63 | 35 | 0 |
| Moruya.. | b | 67 | 50 | 0.18 |
| Kiandra.. | c | .. | 26 | 0 |
| Albury.. | b | 69 | 39 | 0 |
| Bodalla.. | b | 77 | 46 | 0·20 |
| Cooma... | g | 66 | 34 | 0·13 |
| Eden.... | b | 68 | 49 | 0 |
| Gabo Isl'd | c | 65 | 50 | 0 |

As 23 30·21 R 58

## *Curve showing state of Barometer.*

| Ea | A | Re | P | M | WP | Go | E | Ma | CG | Wg | S | N | PM | C | B | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

56 30·04 R 65 o

CLOUDY GENERALLY

W 28 30·29 R 53

13 57 A 14 30·02 R 50 D 0

23 2

23 54 Re

28 29·87 R 56 AA

13 53 M

34 55 P

34 59 h. for Example reads Fine wind from NE 34 mls per hour. sea high temperature 59 hail

CO 23 53 WP

Go 40 52

Mo 42 53

E 42 52

CG 42 55

Wg 11 55

S 4 54

N 6 53

PM 14 61

C 14 ..

B S 74

R

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showrs
q Squally
r-Rain
t Thunder
u-Threatening

MI's WIND SCALE.
1-Light breze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m S M T
or 2h 55m 0·19s a.m.
Greenwich M'n Time
MAG. VAR. 9 35′ 30″ E

Barometer has risen about ·25 inland.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

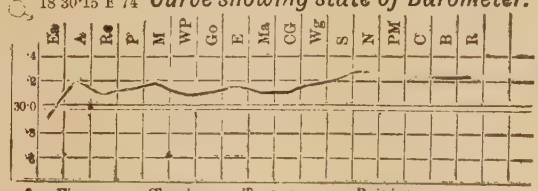
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 20 1880, with NOTES to 3 P.M.

Sydney Observatory.

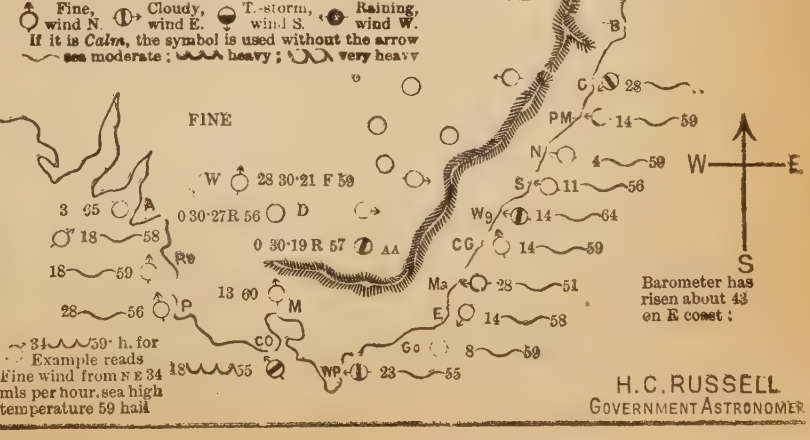
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 20 22·056.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 77 | 51 | 0 |
| Tenterfild | b | 68 | 24 | 0 |
| Moree.... | b | 65 | 54 | 0 |
| Grafton.. | b | 70 | 53 | 0 |
| Inverell.. | b | 68 | 35 | 0 |
| Bourke .. | .. | .. | .. | .. |
| Narrabri | b | 70 | 51 | 0 |
| Armidale | b | 66 | 32 | 0 |
| Bendem'r | b | 66 | 32 | 0 |
| Gunned'h | b | 78 | 32 | 0 |
| Coonab'rn | b | 69 | 34 | 0 |
| P.Macqrie | b | 68 | 49 | 0 |
| Murr'undi | b | 61 | 49 | 0 |
| Cassilis.. | b | 68 | 36 | 0 |
| Mus'br'ok | b | 70 | 40 | 0 |
| Dubbo... | b | 67 | 44 | 0 |
| Mudgee.. | b | 73 | 40 | 0 |
| Maitland. | b | 65 | . | 0·75 |
| Hill End. | b | 59 | 38 | 0 |
| Newcastle | b | 66 | 48 | 0 |
| Orange.. | b | 56 | 35 | 0 |
| Bathurst. | b | 64 | 34 | 0 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | b | 74 | 38 | 0 |
| Forbes... | b | 82 | 49 | 0 |
| SYDNEY. . | b | 66 | 49 | 0·01 |
| 23 83 | | Ea | | |
| Pictor | b | 70 | 38 | 0 |
| Wentw'th | b | 71 | 40 | 0 |
| Young... | b | 66 | 42 | 0 |
| Wellgo'ng | c | 69 | 46 | 0 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | b | 76 | 60 | 0 |
| Goulburn | b | 67 | 35 | 0 |
| Wagga... | b | 73 | 40 | 0 |
| Cape Geo. | b | 66 | . | 0 |
| Queanb'n | b | 68 | 38 | 0 |
| Deniliq in | b | 69 | 38 | 0 |
| Moruya.. | b | 61 | 44 | 0 |
| Kiandra.. | b | 48 | 20 | 0 |
| Albury.. | c | 72 | 37 | 0 |
| Bodalla.. | b | 63 | 39 | 0 |
| Cooma... | b | 68 | 31 | 0 |
| Eden.... | b | 66 | 57 | 0 |
| Gabo Isl'd | b | 60 | 49 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about 43 on E coast:

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 21 1880, with **NOTES** to 3 P.M

Sydney Observatory.

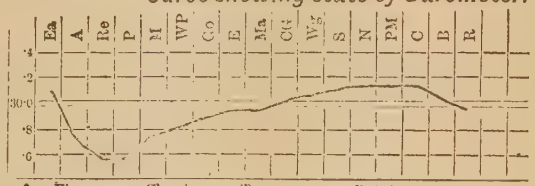
*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 21 22·057.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wtr | Max | Min | rain |
|---|---|---|---|---|
| Casino. | b | 8 47 | | 0 |
| Tenterfild | b | 69 30 | | 0 |
| Moree.... | b | 67 56 | | 0 |
| Grafton.. | o | 71 54 | | 0 |
| Inverell.. | b | 70 39 | | 0 |
| Bourke .. | b | 79 52 | | 0 |
| Narrabri | b | 70 48 | | 0 |
| Armidale | b | 63 32 | | 0 |
| Bendem'r | b | 70 40 | | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 77 36 | | 0 |
| P.Macqrie | b | 70 51 | | 0 |
| Murr'undi. | b | 68 45 | | 0 |
| Cassilis. | b | 74 41 | | 0 |
| Mus'br'ok | b | 76 40 | | 0 |
| Dubbo... | b | 70 46 | | 0 |
| Mudgee.. | b | 79 41 | | 0 |
| Maitland. | b | 70 42 | | 0 |
| Hill End. | b | 60 48 | | 0 |
| Newcastle | b | 70 48 | | 0 |
| Orange.. | b | 59 38 | | 0 |
| Bathurst. | b | 69 36 | | 0 |
| Condob'lin | b | 62 48 | | 0 |
| Mt Vict'ria | c | 62 42 | | 0 |
| Forbes... | b | 81 45 | | 0 |
| SYDNEY. . | b | 70 51 | | 0 |
| 0 68 | | Ea | | |
| Picton | b | 72 39 | | 0 |
| Wentw'th | b | 83 53 | | 0 |
| Young... | b | 66 44 | | 0 |
| Wollgo'ng | b | 75 47 | | 0 |
| Moss Vale | b | 64 39 | | 0 |
| Euston... | b | 86 53 | | 0 |
| Goulburn | b | 68 36 | | 0 |
| Wagga... | b | 70 44 | | 0 |
| Cape Geo. | b | 63 . | | 0 |
| Queanb'n | b | 69 41 | | 0 |
| Deniliq'in | b | 73 50 | | 0 |
| Moruya.. | b | 64 45 | | 0 |
| Kiandra.. | b | 47 20 | | 0 |
| Albury.. | b | 74 42 | | 0 |
| Bodalla.. | b | 73 38 | | 0 |
| Cooma.... | b | 72 33 | | 0 |
| Eden.... | b | 67 47 | | 0 |
| Gabo Isl'd | b | 71 53 | | 0 |

As

## Curve showing state of Barometer.




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

0 30·08 ..78 0 0

CLOUDY GENERALLY IN VICTORIA

W 42 30·11 F 62

23 72 A 23 29·80F 64 D

13 62 Re 14 30·00 F 58 AA

8 61 33 65 M

40 66 P Co

34 59· h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

56 65 WP Go 23 60

Ma 42 53 E 0 54

Cg 14 61 Wg 14 69 S 4 58 N 4 63 PM 14 62 C 14 63 B R

Barometer has fallen about 26 on S coast ;

WEATHER.
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. M'ls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

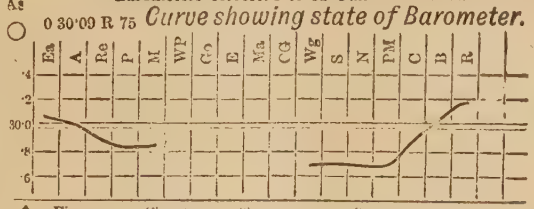
**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 21 1880, with **NOTES** to 3 P.M.

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** September 1 39·733.
**Total Rainfall from Jan. 1st to** September 21 22·057.
**Barometers corrected to 32° Fah** and Mean Sea Level.

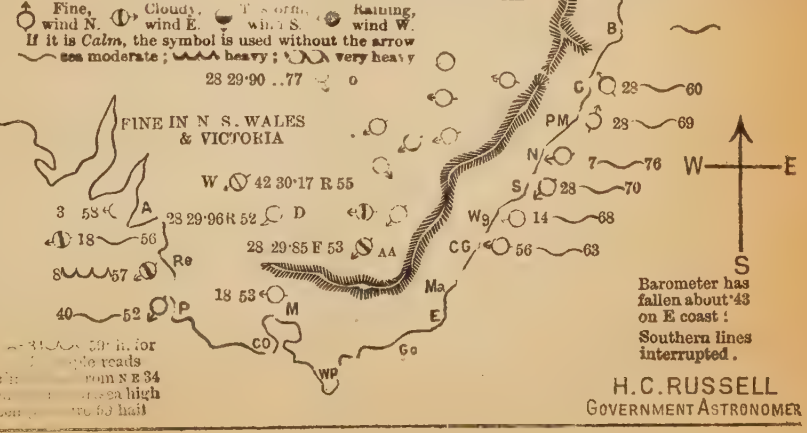
| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 84 | 58 | 0 |
| Tenterfild | b | 70 | 33 | 0 |
| Moree.... | b | 72 | 60 | 0 |
| Grafton.. | b | 75 | 55 | 0 |
| Inverell.. | b | 72 | 39 | 0 |
| Bourke .. | b | 84 | 57 | 0 |
| Narrabri | b | 78 | 59 | 0 |
| Armidale | b | 66 | 32 | 0 |
| Bendem'r | b | 72 | 42 | 0 |
| Gunned'h | b | 82 | 43 | 0 |
| Coonab'rn | b | 76 | 47 | 0 |
| P.Macqrie | b | 72 | 57 | 0 |
| Murr'undi | b | 71 | 58 | 0 |
| Cassilis.. | b | 75 | 57 | 0 |
| Mus'br'ok | b | 80 | 52 | 0 |
| Dubbo... | b | 72 | 56 | 0 |
| Mudgee.. | b | 80 | 42 | 0 |
| Maitland. | b | 74 | .. | 0 |
| Hill End. | b | 64 | 49 | 0 |
| Newcastle | b | 79 | 48 | 0 |
| Orange.. | b | 65 | 49 | 0 |
| Bathurst. | b | 70 | 46 | 0 |
| Condob'ln | b | 61 | 52 | 0 |
| MtVict'ria | b | 66 | 50 | 0 |
| Forbes... | b | 83 | 53 | 0 |
| SYDNEY. . | b | 77 | 58 | 0 |
| 13 66 | | Ea | | |
| Pictor | b | 80 | 45 | 0 |
| Wentw'th | c | 91 | 48 | 0 |
| Young... | b | 71 | 53 | 0 |
| Wollgo'ng | b | 80 | 59 | 0 |
| Moss Vale | b | 70 | 52 | 0 |
| Euston... | b | 90 | 41 | 0 |
| Goulburn | b | 73 | 49 | 0 |
| Wagga... | b | 80 | 50 | 0 |
| Cape Geo. | .. | .. | .. | .. |
| Queanb'n | b | 73 | 48 | 0 |
| Deniliq'in | b | 81 | 42 | 0 |
| Moruya.. | .. | .. | .. | .. |
| Kiandra.. | s | 45 | 17 | 0 |
| Albury.. | m | 79 | 43 | 0 |
| Bodalla.. | .. | .. | .. | 0 |
| Cooma... | c | 69 | 42 | 0 |
| Eden.... | .. | .. | .. | .. |
| Gabo Isl'd | .. | .. | .. | .. |




Fine, wind N. Cloudy, wind E. T[illegible] wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy




**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·43 on E coast:
Southern lines interrupted.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., Sept'ber 23 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 21 21·457.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 91 | 63 | 0 |
| Tenterfld | b | 77 | 29 | 0 |
| Moree.... | b | 72 | 59 | 0 |
| Grafton.. | o | 82 | 51 | 0 |
| Inverell.. | b | 76 | 39 | 0 |
| Bourke .. | b | .. | .. | 0 |
| Narrabri | b | 82 | 48 | 0 |
| Armidale | b | 72 | 32 | 0 |
| Bendem'r | b | 75 | 34 | 0 |
| Gunned'h | b | .. | .. | 0 |
| Coonab'rn | b | 76 | 32 | 0 |
| P.Macqrie | b | 77 | 53 | 0 |
| Murr'undi | b | 74 | 44 | 0 |
| Cassilis.. | b | 73 | 39 | 0 |
| Mus'br'ok | b | 83 | 40 | 0 |
| Dubbo... | b | 70 | 45 | 0 |
| Mudgee.. | b | 78 | 40 | 0 |
| Maitland. | b | 79 | .. | 0 |
| Hill End . | b | 63 | 37 | 0 |
| Newcastle | b | 80 | 49 | 0 |
| Orange.. | b | 59 | 33 | 0 |
| Bathurst. | b | 63 | 32 | 0 |
| Condob'ln | b | 68 | 55 | 0 |
| MtVict'ria | o | 82 | 38 | 0 |
| Forbes... | b | 77 | 41 | 0 |
| SYDNEY. . | b | 73 | 50 | 0 |
| | | Ea | | |
| Pictoi | b | 76 | 38 | 0 |
| Wentw'th | r | 78 | 45 | 0 |
| Young... | b | 65 | 41 | 0 |
| Wollgo'ng | o | 74 | 45 | 0 |
| Moss Vale | g | 61 | 40 | 0 |
| Euston... | b | 73 | 40 | 0 |
| Goulburn | g | 61 | 35 | 0 |
| Wagga... | g | 69 | 41 | 0 |
| Cape Geo. | b | 71 | .. | 0 |
| Queanb'n | b | 65 | 41 | 0 |
| Deniliq'in | b | 64 | 42 | 0 |
| Moruya.. | .. | 31 | 47 | .. |
| Kiandra.. | g | 38 | 14 | 0 |
| Albury.. | u | 69 | 39 | 0 |
| Bodalla.. | .. | .. | .. | 0 |
| Cooma... | o | 65 | 35 | 0 |
| Eden.... | b | 64 | 46 | .. |
| Gabo Isl'd | .. | .. | .. | .. |

As

*Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

FINE GENERALLY

W — 30·11 F 58

1429·95F 59 D

29·88 R 55 AA

18 57

34 — 55 P

34 — 59· h. for Example reads
Fine wind from NE 34 mls per hour. sea high temperature 59 hail

R 29·18

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

B C 14 PM 14 — 65 N 4 — 64 S 8 — 61 Wg 14 — 62 CG 42 — 57 Ma 14 — 53 E 14 — 55 Go 13 — 57

W E S

Barometer has risen about ·21 on E coast :

WEATHER.
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
Mls
13-Lt brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
55-Whole ,,

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 24 1880, with NOTES to 3 P.M.

Sydney Observatory.

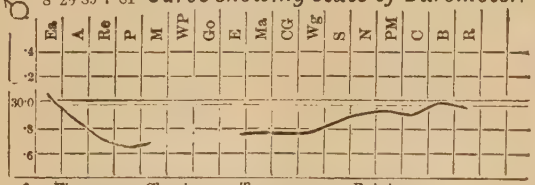
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 24 21·457.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 89 | 47 | 0 |
| Tenterfild | b | 71 | 33 | 0 |
| Moree.... | b | 73 | 61 | 0 |
| Grafton.. | b | 76 | 54 | 0 |
| Inverell.. | b | 73 | 38 | 0 |
| Bourke .. | b | 85 | 61 | 0 |
| Narrabri | b | 79 | 51 | 0 |
| Armidale | b | 72 | 32 | 0 |
| Bendem'r | b | 70 | 39 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | u | 75 | 39 | 0 |
| P.Macqrie | b | 72 | 52 | 0 |
| Murr'undi | b | 70 | 49 | 0 |
| Cassilis.. | u | 71 | 43 | 0 |
| Mus'br'ok | b | 77 | 42 | 0 |
| Dubbo... | b | 71 | 56 | 0 |
| Mudgee.. | b | 76 | 44 | 0 |
| Maitland. | b | 74 | .. | 0 |
| Hill End. | b | 60 | 43 | 0 |
| Newcastle | b | 80 | 48 | 0 |
| Orange.. | b | 60 | 41 | 0 |
| Bathurst. | b | 65 | 39 | 0 |
| Condob'ln | .. | .. | .. | .. |
| MtVict'ria | b | 62 | 46 | 0 |
| Forbes... | c | 78 | 47 | 0 |
| SYDNEY. . | b | 73 | 54 | 0 |
| 0 57 | | Ea | | |
| Pictor | b | 71 | 41 | 0 |
| Wentw'th | b | 78 | 50 | 0·02 |
| Young... | g | 66 | 49 | 0 |
| Wollgo'ng | b | 73 | 58 | 0 |
| Moss Vale | b | 62 | 42 | 0 |
| Euston... | b | 79 | 53 | 0 |
| Goulburn | b | 64 | 38 | 0 |
| Wagga... | b | 72 | 41 | 0 |
| Cape Geo. | b | 70 | .. | 0 |
| Queanb'n | b | 65 | 41 | 0 |
| Deniliq'in | b | 70 | 47 | 0 |
| Moruya.. | .. | .. | .. | .. |
| Kiandra.. | g | 47 | 20 | 0 |
| Albury.. | b | 73 | 44 | 0·10 |
| Bodalla.. | .. | | .. | .. |
| Cooma... | b | 62 | 38 | 0·01 |
| Eden.... | g | 65 | 49 | 0 |
| Gabo Isl'd | .. | .. | .. | .. |

As

8 29·89 F 81 *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

28 29·82..79 o

CLOUDY GENERALLY ON S COAST

W 70 30·00 F 58

8 59 A

29·78F 62 D

23 56

14 29·74 F 59 AA

18 59 Re

13 62 M

28 54 P

34 59· h. for

Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

CO

WP

Go

Ma

E 14 52

CG 28 62

Wg 67

S 2 65

N 8 68

PM 14 66

C 14 65

B 3 75

R

Ml's WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has fallen about ·14 inland in N S W

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

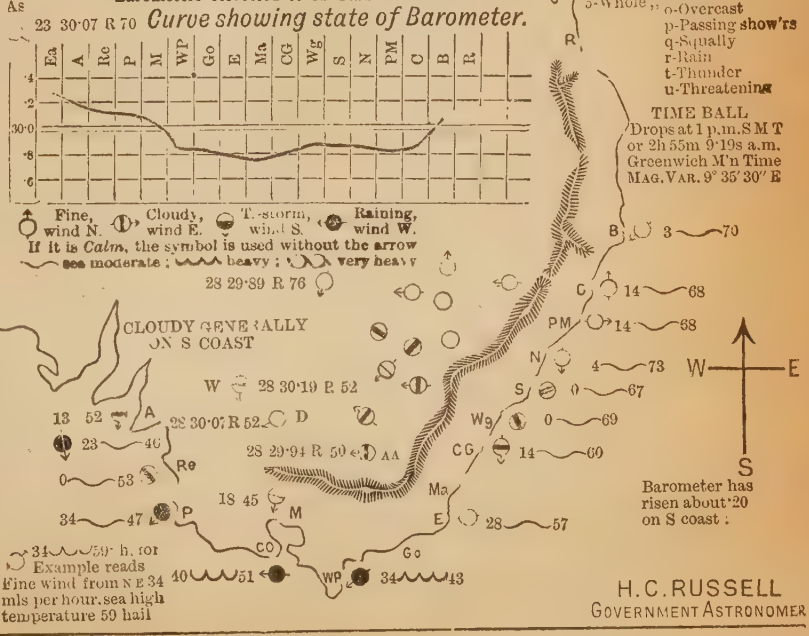
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 25 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** September 1 39·733.
**Total Rainfall from Jan. 1st to** September 25 21·457.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 89 | 50 | 0 |
| Tenterfild | b | 80 | 42 | 0 |
| Moree.... | b | 80 | 64 | 0 |
| Grafton.. | b | 78 | 53 | 0 |
| Inverell.. | b | 79 | 48 | 0 |
| Bourke .. | b | 97 | 62 | 0 |
| Narrabri | b | 87 | 68 | 0 |
| Armidale | b | 73 | 33 | 0 |
| Bendem'r | b | 79 | 50 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 84 | 49 | 0 |
| P.Macqrie | b | 74 | 56 | 0 |
| Murr'undi | b | 77 | 54 | 0 |
| Cassilis. | g | 80 | 54 | 0 |
| Mus'br'ok | b | 83 | 54 | 0 |
| Dubbo... | b | 76 | 57 | 0 |
| Mudgee.. | b | 77 | 44 | 0 |
| Maitland. | b | 84 | .. | 0 |
| Hill End. | c | 67 | 49 | 0 |
| Newcastle | b | 85 | 63 | 0 |
| Orange.. | g | 62 | 50 | 0 |
| Bathurst. | b | 73 | 50 | 0 |
| Condob'ln | g | 63 | 49 | 0 |
| MtVict'ria | b | 73 | 53 | 0 |
| Forbes... | g | 82 | 55 | 0 |
| SYDNEY. . | c | 83 | 63 | 0 |
| 23 54 | | Ea | | |
| Pictor | g | 87 | 42 | 0 |
| Wentw'th | c | 74 | 45 | 0 |
| Young... | g | 75 | 55 | 0 |
| Wollgo'ng | g | 85 | 63 | 0 |
| Moss Vale | g | 79 | 52 | 0 |
| Euston... | c | 80 | 42 | 0 |
| Goulburn | b | 77 | 51 | 0·05 |
| Wagga... | g | 80 | 40 | 0 |
| Cape Geo. | c | 68 | | 0 |
| Queanb'n | c | 72 | 51 | 0·02 |
| Deniliq'in | b | 73 | 41 | 0 |
| Moruya.. | .. | .. | .. | .. |
| Kiandra.. | g | 47 | 20 | 0 |
| Albury.. | c | 77 | 46 | 0·12 |
| Bodalla.. | .. | | .. | .. |
| Cooma... | c | 72 | 44 | 0 |
| Eden.... | b | 65 | 52 | 0 |
| Gabo Isl'd | .. | .. | .. | .. |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

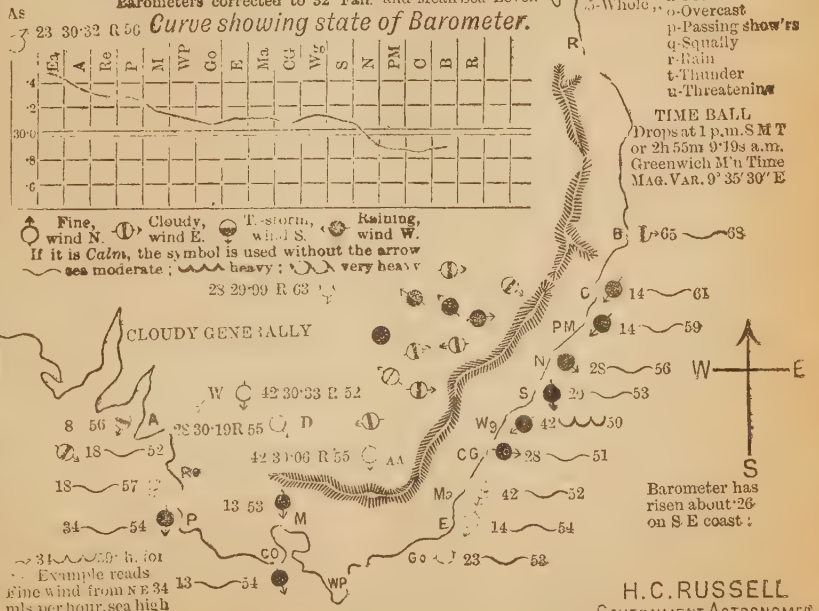
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 27 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 27 23·389.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | c | 86 | 63 | 0·09 |
| Tenterfild | g | 82 | 45 | 0·28 |
| Moree.... | r | 71 | 32 | 0·69 |
| Grafton.. | g | 75 | 62 | 0·65 |
| Inverell.. | r | 81 | 58 | 0 |
| Bourke .. | c | 67 | 39 | 0 |
| Narrabri | r | 79 | 57 | 0·35 |
| Armidale | r | 80 | .. | 0·54 |
| Bendem'r | r | 72 | 53 | 0·53 |
| Gunned'h | r | 92 | 45 | 0·69 |
| Coonab'rn | r | 64 | 49 | 0·32 |
| P.Macqrie | p | 67 | 57 | 0·14 |
| Murr'undi | r | 70 | 49 | 1·15 |
| Cassilis. | r | 81 | 48 | 0·56 |
| Mus'br'ok | r | 59 | 45 | 0·55 |
| Dubbo... | r | 74 | 51 | 0·31 |
| Mudgee.. | u | 82 | 48 | 0·34 |
| Maitland. | r | 79 | .. | 1·60 |
| Hill End. | p | 67 | 3[illegible] | 0·60 |
| Newcastle | r | 72 | 55 | 2·62 |
| Orange. | r | 52 | 40 | 0·92 |
| Bathurst. | u | 65 | 43 | 0·35 |
| Condob'ln | u | 63 | 49 | 0 |
| MtVict'ria | r | 67 | 37 | 1·41 |
| Forbes... | d | 71 | 46 | 0·09 |
| SYDNEY. . | r | 54 | 51 | 1·93 |
| 13 58 | | Ea | | |
| Picton | r | 63 | 48 | 0·94 |
| Wentw'th | b | 63 | 42 | 0 |
| Young... | u | 52 | 44 | 0·11 |
| Wollgo'ng | p | 56 | 67 | 1·36 |
| Moss Vale | r | 44 | 40 | 0·63 |
| Euston.. | b | 63 | 37 | 0 |
| Goulburn | r | 44 | 36 | 0·92 |
| Wagga... | b | 69 | 43 | 0 |
| Cape Geo. | p | 52 | | 0·47 |
| Queanb'n | c | 58 | 44 | 0·13 |
| Deniliq'in | b | 61 | 32 | 0 |
| Moruya.. | b | 70 | 46 | 0·03 |
| Kiandra.. | s | 4[illegible] | 19 | 0 |
| Albury.. | b | 70 | 35 | 0 |
| Bodalla.. | c | 6[illegible] | [illegible] | 0 |
| Cooma... | c | 54 | 12 | 0·06 |
| Eden.... | b | 58 | 43 | 0 |
| Gabo Is'd | b | 58 | 47 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

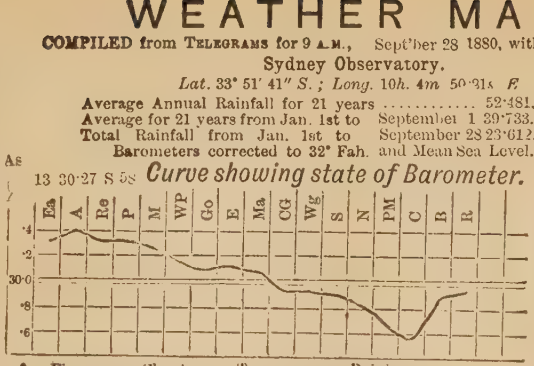
**COMPILED from TELEGRAMS for 9 A.M.,** Sept'ber 28 1880, with **NOTES to 3 P.M**

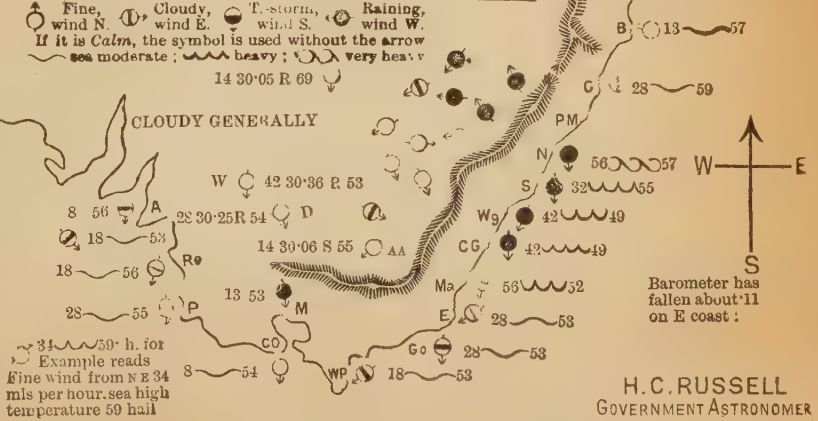
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·91*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 28 23·612.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wtr | Max | Min | rain |
|---|---|---|---|---|
| Casino. | p | 69 | 52 | 0·78 |
| Tenterfild | r | 62 | 31 | 0·49 |
| Moree.... | g | 63 | 51 | 0·25 |
| Grafton.. | r | 65 | 53 | 0·45 |
| Inverell.. | r | 51 | 45 | 1·05 |
| Bourke .. | b | 78 | 45 | 0 |
| Narrabri | g | 60 | 49 | 0·35 |
| Armidale | g | 54 | 40 | 2·40 |
| Bendem'r | r | 59 | 49 | 1 00 |
| Gunned'h | c | 59 | 40 | 0·78 |
| Coonab'ra | c | 52 | 42 | 1·66 |
| P.Macqrie | .. | .. | .. | .. |
| Murr'undi | r | 53 | 45 | 1·40 |
| Cassilis. | g | 53 | 46 | 0·93 |
| Mus br'ok | g | 56 | 43 | 0·61 |
| Dubbo... | b | 63 | 46 | 0·71 |
| Mudgee.. | c | 61 | 46 | 0·80 |
| Maitland. | d | 57 | .. | 1·80 |
| Hill End. | g | 60 | 40 | 0 25 |
| Newcastle | r | 68 | 45 | 1·22 |
| Orange. | g | 52 | 39 | 0·21 |
| Bathurst. | g | 48 | 43 | 0·10 |
| Condob'lin | b | 56 | 44 | 0 |
| MtVict'ria | g | 42 | 35 | 0·58 |
| Forbes... | b | 65 | 44 | 0·13 |
| SYDNEY. . | g | 56 | 51 | 0·22 |
| Pictor | .. | 58 | 48 | 0·19 |
| Wentw'th | b | 68 | 43 | 0 |
| Young... | b | 55 | 43 | 0 |
| Wollgo'ng | p | 52 | 49 | 0·43 |
| Moss Vale | r | 46 | 38 | 0·69 |
| Euston... | b | 69 | 45 | 0 |
| Goulburn | b | 47 | 38 | 0·15 |
| Wagga... | b | 69 | 42 | 0 |
| Cape Geo. | p | 57 | .. | 0·31 |
| Queanb'n | b | 58 | 37 | 0 |
| Deniliq'in | b | 66 | 36 | 0 |
| Moruya.. | q | 66 | 47 | 0·45 |
| Kiandra.. | s | 39 | 19 | 0 |
| Albury.. | b | 72 | 36 | 0 |
| Bodalla.. | c | 66 | 34 | 0·05 |
| Cooma.... | q | 56 | 31 | 0·04 |
| Eden.... | c | 61 | 47 | 0·22 |
| Gabo Isl'd | g | 63 | 55 | 0 |




**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has fallen about 11 on E coast :

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

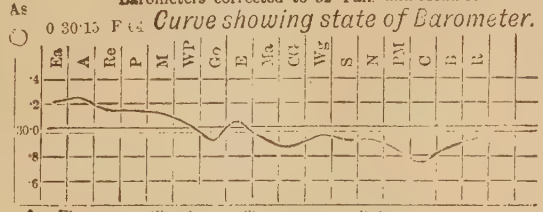
**COMPILED** from TELEGRAMS for 9 A.M., Sept'ber 29 1880, with NOTES to 3 P.M.

Sydney Observatory.

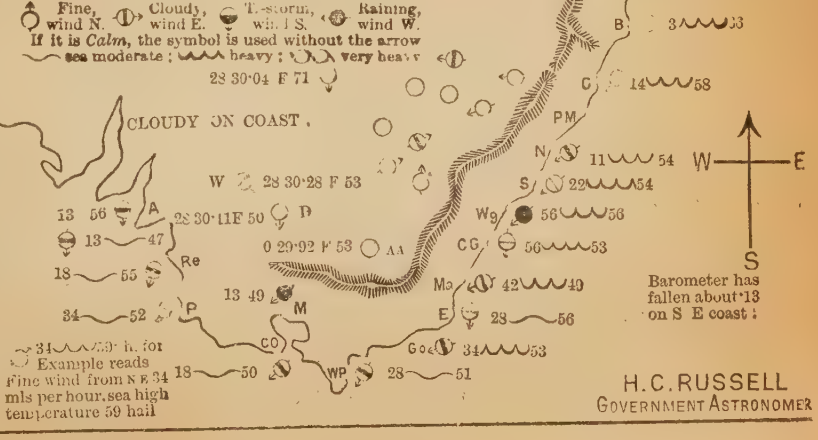
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 29 23·804.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 69 | 47 | 0·12 |
| Tenterfild | b | 52 | 27 | 0·10 |
| Moree.... | b | 59 | 52 | 0·01 |
| Grafton.. | b | 61 | 51 | 0 |
| Inverell.. | b | 62 | 39 | 0·04 |
| Bourke .. | b | 74 | 46 | 0 |
| Narrabri | b | 64 | 44 | 0 |
| Armidale | g | 55 | 35 | 0 |
| Bendem'r | g | 51 | 40 | 0·14 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 63 | 32 | 0 |
| P.Macqrie | .. | .. | .. | .. |
| Murr'undi | b | 53 | 45 | 0·13 |
| Cassilis.. | n | 52 | 36 | 0 |
| Mus'br'ok | g | 60 | 41 | 0·01 |
| Dubbo... | b | 63 | 43 | 0 |
| Mudgee.. | b | 69 | 36 | 0 |
| Maitland. | g | 59 | .. | 0·12 |
| Hill End. | b | 56 | 31 | 0·33 |
| Newcastle | g | 65 | 40 | 0 |
| Orange.. | b | 53 | 30 | 0 |
| Bathurst. | b | 55 | 33 | 0 |
| Condob'ln | b | 55 | 46 | 0 |
| MtVict'ria | c | 45 | 35 | 0·08 |
| Forbes... | b | 71 | 42 | 0 |
| SYDNEY. . | g | 57 | 50 | 0·19 |
| 13 60 | | Ea | | |
| Pictor | b | 56 | 47 | 0 |
| Wentw'th | g | 68 | 43 | 0 |
| Young... | c | 64 | 59 | 0 |
| Wollgo'ng | p | 61 | 48 | 0·40 |
| Moss Vale | c | 48 | 38 | 0·06 |
| Euston... | b | 72 | 41 | 0 |
| Goulburn | b | 55 | 31 | 0 |
| Wagga... | b | 71 | 42 | 0 |
| Cape Geo. | c | 58 | | 0.19 |
| Queanb'n | b | 64 | 36 | 0 |
| Deniliq'in | b | 61 | 37 | 0 |
| Moruya.. | b | 65 | 43 | 0 |
| Kiandra.. | b | 38 | 19 | 0 |
| Albury.. | b | 74 | 25 | 0 |
| Bodalla.. | b | 62 | 37 | 0 |
| Cooma... | g | 55 | 34 | 0 |
| Eden.... | c | 59 | 51 | 0 |
| Gabo Isl'd | b | 60 | 50 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

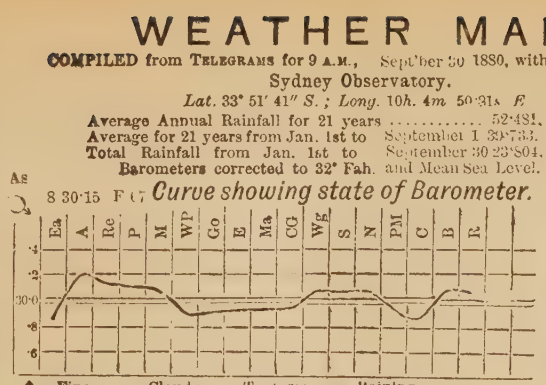
**COMPILED** from TELEGRAMS for 9 A.M., September 30 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to September 1 39·733.
Total Rainfall from Jan. 1st to September 30 23·804.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Weather | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 71 | 43 | 0 |
| Tenterfield | b | 62 | 29 | 0 |
| Moree.... | b | 62 | 54 | 0 |
| Grafton... | b | 72 | 49 | 0 |
| Inverell... | b | 62 | 38 | 0 |
| Bourke... | b | 80 | 45 | 0 |
| Narrabri | b | 69 | 49 | 0 |
| Armidale | b | 60 | 35 | 0 |
| Bendemr | b | 61 | 36 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 66 | 37 | 0 |
| P.Macqrie | b | 64 | 48 | 0 |
| Murr'undi | b | 58 | 43 | 0 |
| Cassilis. | b | 62 | 42 | 0 |
| Mus'br'ok | b | 69 | 38 | 0 |
| Dubbo... | b | 68 | 45 | 0 |
| Mudgee.. | b | 67 | 44 | 0 |
| Maitland. | b | 62 | .. | 0·13 |
| Hill End.. | b | 55 | 33 | 0 |
| Newcastle | b | 66 | 49 | 0 |
| Orange.. | b | 55 | 30 | 0·01 |
| Bathurst. | b | 59 | 31 | 0? |
| Condob'lin | b | 55 | 46 | 0 |
| Mt Vict'ria | b | 55 | 33 | 0 |
| Forbes... | b | 74 | 41 | 0 |
| SYDNEY.. | b | 59 | 51 | 0 |
| 23 66 | Ea | | | |
| Picton | c | 65 | 45 | 0 |
| Wentw'th | b | 66 | 39 | 0 |
| Young... | b | 64 | 38 | 0 |
| Wollo'ng | c | 62 | 49 | 0 |
| Moss Vale | .. | .. | .. | .. |
| Euston... | b | 69 | 44 | 0 |
| Goulburn | b | 60 | 36 | 0 |
| Wagga... | b | 73 | 39 | 0 |
| Cape Geo. | b | 62 | | 0 |
| Queanb'n | b | 65 | 37 | 0 |
| Deniliq in | b | 64 | 35 | 0 |
| Moruya.. | b | 64 | 42 | 0·04 |
| Kiandra.. | b | 38 | 19 | 0 |
| Albury.. | b | 69 | 32 | 0 |
| Bodalla.. | b | 68 | 34 | 0 |
| Cooma... | n | 59 | 28 | 0 |
| Eden.... | b | 68 | 46 | 0 |
| Gabo Isl'd | b | 57 | 52 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

WIND SCALE.
0-Calm
1-Light breeze
2-Mod. ,,
3-Fresh ,,
4-Strg gale ,,
5-Whole ,,

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has risen about ·10 on E coast :

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 1 [illegible]

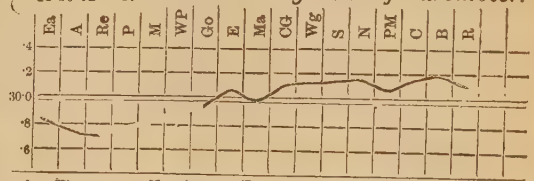
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·[illegible] *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** October 1.... 43·239.
**Total Rainfall from Jan. 1st to** October 1 .. 23·805.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 73 | 44 | 0 |
| Tenterfild | b | 66 | 26 | 0 |
| Moree.... | b | 65 | 52 | 0 |
| Grafton.. | b | 74 | 19 | 0 |
| Inverell.. | b | 56 | 37 | 0 |
| Bourke .. | b | 75 | 49 | 0 |
| Narrabri | b | 70 | 46 | 0 |
| Armidale | b | 60 | 35 | 0 |
| Bendem'r | b | 65 | 35 | 0 |
| Gunned'h | b | 80 | 29 | 0 |
| Coonab'rn | b | 69 | 31 | 0 |
| P.Macqrie | b | 66 | 49 | 0 |
| Murr'undi | b | 63 | 32 | 0 |
| Cassilis.. | n | 61 | 37 | 0 |
| Mus'br'ok | b | 73 | 39 | 0 |
| Dubbo... | b | 65 | 44 | 0 |
| Mudgee.. | b | 72 | 40 | 0 |
| Maitland. | b | 66 | .. | 0 |
| Hill End. | b | 55 | 34 | 0 |
| Newcastle | b | 64 | 47 | 0 |
| Orange.. | b | 56 | 33 | 0 |
| Bathurst. | b | 62 | 32 | 0 |
| Condob'ln | b | 54 | 44 | 0 |
| MtVict'ria | b | 60 | 35 | 0 |
| Forbes... | b | 75 | 43 | 0 |
| SYDNEY. . | b | 61 | 46 | 0 |
| 13 65 | E | | | |
| Pictor | n | 67 | 37 | 0 |
| Wentw'th | g | 51 | 43 | 0 |
| Young... | b | 63 | 38 | 0 |
| Wollgo'ng | b | 59 | 45 | 0 |
| Moss Vale | .. | . | .. | .. |
| Euston... | g | 68 | 36 | 0 |
| Goulburn | b | 65 | 32 | 0 |
| Wagga... | b | 71 | 58 | 0 |
| Cape Geo. | b | 61 | . | 0 |
| Queanb'n | b | 67 | 36 | 0 |
| Deniliq'in | b | 60 | 38 | 0 |
| Moruya.. | b | 63 | 42 | 0 |
| Kiandra.. | b | 40 | 20 | 0 |
| Albury.. | b | 70 | 34 | 0 |
| Bodalla.. | b | 72 | 34 | 0 |
| Cooma... | n | 59 | 27 | 0 |
| Eden.... | b | 67 | 44 | 0 |
| Gabo Isl'd | b | 57 | 51 | 0 |

18 30·01 R 87 *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

28 30·07 F 72

FINE GENERALLY.

W 42 30·13 F 57

13 60 A 28 30·09 F 59 D

59

18 55 Re

0 30·05 R 53 AA

P M CO WP

Fine wind from N E 34 mls per hour, sea high temperature 59 hail

WEATHER.
b-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'r
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E.

B 13 68
G 14 61
PM 14 63
N 5 61
S 7 57
Wg 42 01
CG 14 58
Ma 14 49
E 0 54
Go 23 56

W E S

Barometer has fallen about ·27 on S W coast.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

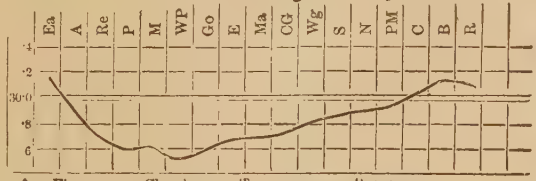
**COMPILED from TELEGRAMS for 9 A.M., October.. 2 1880, with NOTES to 3 P.M.**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S* ; *Long* 10h 4m 50·91s *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** October 1.... 43·239.
**Total Rainfall from Jan. 1st to** October 2 .. 23·805.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

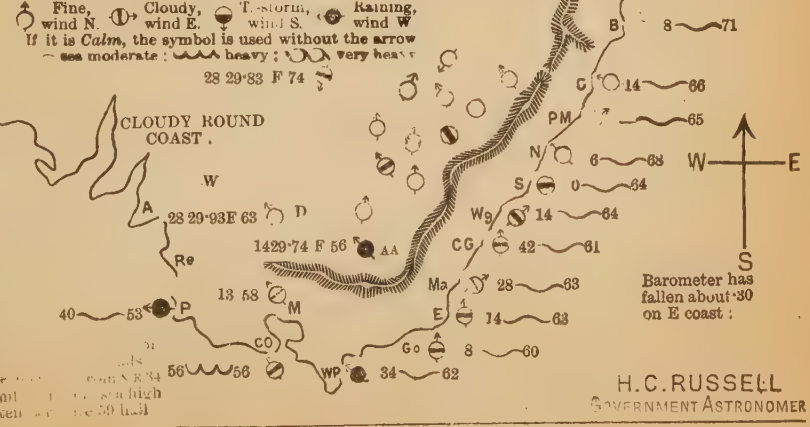
*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow — sea moderate : heavy ; very heavy

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 80 | 53 | 0 |
| Tenterfild | b | 70 | 33 | 0 |
| Moree.... | b | 62 | 53 | 0 |
| Grafton.. | b | 71 | 51 | 0 |
| Inverell.. | b | 69 | 41 | 0 |
| Bourke .. | g | 81 | 56 | 0 |
| Narrabri | b | 72 | 53 | 0 |
| Armidale | b | 65 | 34 | 0 |
| Bendem'r | b | 70 | 38 | 0 |
| Gunned'h | o | 62 | 49 | 0 |
| Coonab'rn | b | 74 | 39 | 0 |
| P.Macqrie | b | 70 | 37 | 0 |
| Murr'undi | b | 67 | 50 | 0 |
| Cassilis. | b | 69 | 55 | 0 |
| Mus'br'ok | b | 76 | 42 | 0 |
| Dubbo... | c | 69 | 48 | 0 |
| Mudgee.. | b | 74 | 43 | 0 |
| Maitland. | b | 68 | .. | 0 |
| Hill End. | b | 67 | .. | 0 |
| Newcastle | b | 69 | 48 | 0 |
| Orange.. | | .. | .. | .. |
| Bathurst. | b | 62 | 42 | 0 |
| Condob'ln | b | 82 | 38 | 0 |
| MtVict'ria | c | 63 | 46 | 0 |
| Forbes... | c | 72 | 47 | 0 |
| SYDNEY. . | c | 65 | 59 | 0 |
| | | E | | |
| Pictor | c | 69 | 45 | 0 |
| Wentw'th | .. | . | .. | .. |
| Young... | g | 70 | 50 | 0 |
| Wollgo'ng | c | 69 | 57 | 0 |
| Moss Vale | g | 65 | 42 | 0 |
| Euston... | g | 64 | 45 | 0 |
| Goulburn | b | 69 | 44 | 0 |
| Wagga... | g | 71 | 53 | 0 |
| Cape Geo. | c | 66 | | 0 |
| Queanb'n | b | 74 | 30 | 0 |
| Deniliq'in | b | 71 | 51 | 0 |
| Moruya.. | b | 67 | 49 | 0 |
| Kiandra.. | p | 62 | 25 | 0 |
| Albury.. | r | 73 | 50 | 0 |
| Bodalla.. | b | 72 | 41 | 0 |
| Cooma... | b | 68 | 36 | 0 |
| Eden.... | b | 63 | 53 | 0 |
| Gabo Isl'd | g | 65 | 53 | 0 |




Barometer has fallen about ·30 on E coast :

WIND SCALE.
[illegible] brze
[illegible] Mod. ,,
[illegible] Fresh ,,
[illegible] trg gale
[illegible] Whole ,,

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

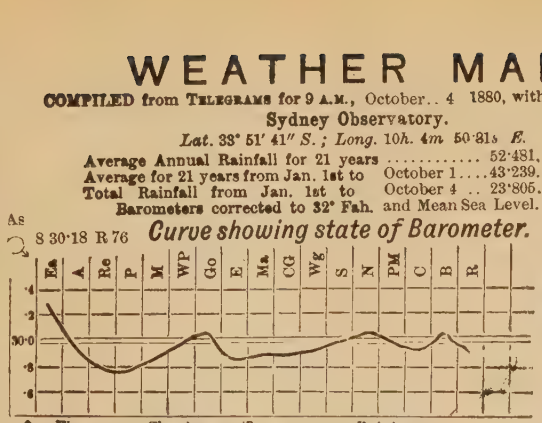
**COMPILED** from **TELEGRAMS** for 9 **A.M.**, October.. 4 1880, with **NOTES** to 3 **P.M**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 4 .. 23·805.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | .. | .. | 0 |
| Tenterfield | b | 73 | 33 | 0 |
| Moree.... | b | 69 | 56 | 0 |
| Grafton.. | b | 78 | 51 | 0 |
| Inverell.. | b | 74 | 30 | 0 |
| Bourke .. | b | 76 | 45 | 0 |
| Narrabri | b | 71 | 41 | 0 |
| Armidale | b | 70 | 35 | 0·10 |
| Bendem'r | b | 76 | 33 | 0 |
| Gunned'h | b | .. | .. | 0 |
| Coonab'rn | b | 68 | 30 | 0 |
| P.Macqrie | g | 85 | 54 | 0 |
| Murr'undi | b | 74 | 41 | 0 |
| Cassilis.. | b | 72 | 32 | 0 |
| Mus'br'ok | b | 72 | 38 | 0 |
| Dubbo... | b | 74 | 44 | 0 |
| Mudgee.. | b | 78 | 38 | 0 |
| Maitland. | b | 80 | 48 | 0 |
| Hill End. | b | 68 | 35 | 0·04 |
| Newcastle | b | 74 | 49 | 0 |
| Orange.. | b | 54 | 35 | .. |
| Bathurst. | b | 73 | 35 | 0·52 |
| Condob'lin | b | .. | .. | 0 |
| MtVict'ria | b | 72 | 37 | 0·35 |
| Forbes... | b | 71 | 43 | 0 |
| SYDNEY. . | b | 70 | 52 | 0 |
| 13 60 | | E | | |
| Pictor | b | 66 | 37 | 0 |
| Wentw'th | b | 63 | 37 | .. |
| Young... | b | 67 | 38 | 0 |
| Wollgo'ng | c | 70 | 41 | 0 |
| Moss Vale | b | 57 | 39 | 0 |
| Euston... | b | 72 | 38 | 0 |
| Goulburn | b | 58 | 36 | 0·19 |
| Wagga... | b | 64 | 40 | 0·16 |
| Cape Geo. | b | 78 | .. | 0 |
| Queanb'n | b | 65 | 35 | 0·21 |
| Deniliq'in | b | 66 | 38 | 0 |
| Moruya.. | b | 69 | 42 | 0 |
| Kiandra.. | b | 30 | 19 | 0 |
| Albury.. | b | 64 | 37 | 0 21 |
| Bodalla.. | b | 70 | 35 | 0 |
| Cooma... | c | 59 | 36 | 0·07 |
| Eden.... | c | 63 | 44 | .. |
| Gabo Isl'd | b | 62 | 51 | 0·04 |




H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

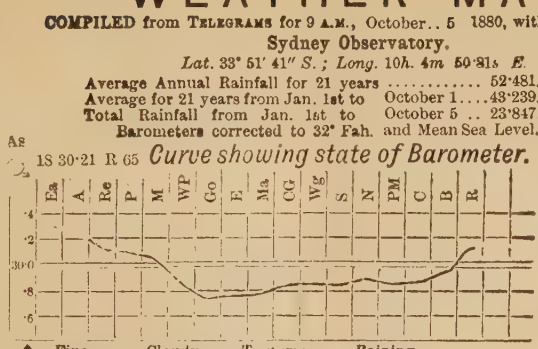
**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 5 1880, with **NOTES** to 3 P.M

## Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 5 .. 23·847.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 82 | 45 | 0 |
| Tenterfild | b | 68 | 33 | 0 |
| Moree.... | b | 67 | 55 | 0 |
| Grafton.. | b | 75 | 49 | 0 |
| Inverell.. | b | 73 | 36 | 0 |
| Bourke .. | b | 80 | 45 | 0 |
| Narrabri | b | 74 | 55 | 0 |
| Armidale | b | 70 | 36 | 0 |
| Bendem'r | b | 68 | 36 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 72 | 39 | 0 |
| P.Macqrie | b | 68 | 49 | 0 |
| Murr'undi | b | 65 | 49 | 0 |
| Cassilis. | b | 73 | 32 | 0 |
| Mus'br'ok | b | 71 | 44 | 0 |
| Dubbo... | c | 68 | 46 | 0 |
| Mudgee.. | b | 73 | 44 | 0·23 |
| Maitland. | b | 71 | 53 | 0 |
| Hill End. | b | 67 | 34 | 0 |
| Newcastle | b | 75 | 51 | 0 |
| Orange.. | r | 59 | 37 | 0·34 |
| Bathurst. | g | 62 | 41 | 0·19 |
| Condob'lin | .. | .. | .. | .. |
| MtVict'ria | g | 60 | 36 | 0·08 |
| Forbes... | c | 75 | 40 | 0 |
| SYDNEY.. | b | 68 | 52 | 0·04 |
| 8 60 | | E | | |
| Picton | b | 70 | 43 | 0 |
| Wentw'th. | b | 64 | 45 | 0 |
| Young... | p | 67 | 45 | 0·21 |
| Wollgo'ng | c | 59 | 53 | 0 |
| Moss Vale | c | 61 | 39 | 0 |
| Euston... | b | 59 | 38 | 0 |
| Goulburn | g | 63 | 40 | 0·07 |
| Wagga... | g | 72 | 45 | 0·28 |
| Cape Geo. | g | 70 | .. | 0 |
| Queanb'n | .. | .. | .. | .. |
| Deniliq'in | c | 69 | 38 | 0·26 |
| Moruya.. | g | 67 | 49 | 0·09 |
| Kiandra.. | b | 40 | 19 | 1·20 |
| Albury.. | b | 69 | 42 | 0 31 |
| Bodalla.. | c | 73 | 14 | 0·04 |
| Cooma... | .. | .. | .. | .. |
| Eden.... | g | 65 | 48 | 0 |
| Gabo Is'd | g | 68 | 50 | 0·14 |




H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 6 1880, with **NOTES** to 3 P.M

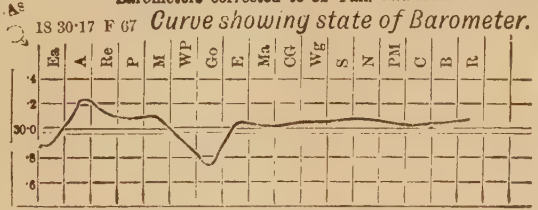
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·91*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1....43 239.
Total Rainfall from Jan. 1st to October 6 .. 23·934.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 80 | 39 | 0 |
| Tenterfild | b | 64 | 25 | 0 |
| Moree.... | b | 64 | 53 | 0 |
| Grafton.. | b | 80 | 47 | 0 |
| Inverell.. | b | 65 | 33 | 0 |
| Bourke .. | b | 72 | 43 | 0 |
| Narrabri | b | 72 | 43 | 0 |
| Armidale | b | 61 | 32 | 0 |
| Bendem'r | b | 63 | 33 | 0 |
| Gunned'h | .. | .. | .. | .. |
| Coonab'rn | b | 64 | 31 | 0 |
| P.Macqrie | b | 71 | 51 | 0 |
| Murr'undi | b | 61 | 42 | 0 |
| Cassilis.. | b | 60 | 35 | 0 |
| Mus'br'ok | b | 69 | 38 | 0 |
| Dubbo... | b | 63 | 41 | 0 |
| Mudgee.. | b | 60 | 35 | 0 |
| Maitland. | b | 69 | 50 | 0·05 |
| Hill End. | b | 57 | 31 | 0·02 |
| Newcastle | b | 75 | 47 | 0 |
| Orange.. | g | 50 | 34 | 0 |
| Bathurst. | b | 52 | 30 | 0·02 |
| Condob'lin | b | 54 | 45 | 0 |
| MtVict'ria | b | 52 | 31 | 0 |
| Forbes... | b | 64 | 34 | 0 |
| SYDNEY.. | b | 62 | 49 | 0·09 |
| Picton | b | 65 | 40 | 0·30 |
| Wentw'th | b | 65 | 53 | 0 |
| Young... | c | 56 | 35 | 0·02 |
| Wollgo'ng | b | 63 | 46 | 0 |
| Moss Vale | b | 55 | 37 | 0·44 |
| Euston... | b | 64 | 55 | 0·07 |
| Goulburn | n | 59 | 30 | 0·05 |
| Wagga... | b | 62 | 38 | 0 |
| Cape Geo. | b | 72 | .. | 0 |
| Queanb'n | b | 61 | 35 | 0 |
| Deniliq'in | b | 69 | 41 | 0 |
| Moruya.. | b | 69 | 41 | |
| Kiandra.. | b | 39 | 20 | |
| Albury.. | b | 67 | 31 | 0 |
| Bodalla.. | b | 69 | 34 | 0 |
| Cooma... | n | 54 | 29 | 0 |
| Eden.... | b | 61 | 44 | 0 |
| Gabo Isl'd | | 55 | 47 | 0 |

## Curve showing state of Barometer.




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

WIND SCALE. Mi's
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
7-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about ·22 on E. coast.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

# WEATHER MAP.

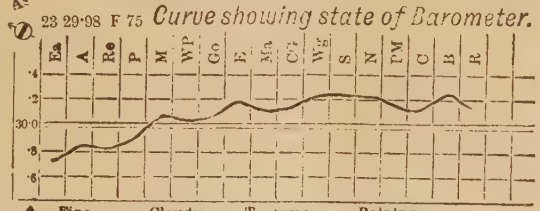
**COMPILED** from TELEGRAMS for 9 A.M., October.. 7 1880, with NOTES to 3 P.M.

Sydney Observatory.

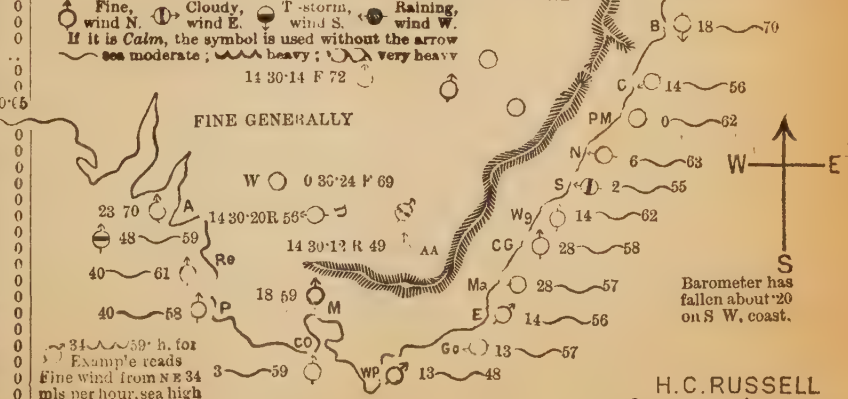
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1....43·239.
Total Rainfall from Jan. 1st to October 7 .. 24·012.
Barometers corrected to 32° Fah and Mean Sea Level.

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | .. | .. | .. | .. |
| Tenterfild | b | 61 | 32 | 0 |
| Moree..... | b | 65 | 55 | 0 |
| Grafton.. | b | 73 | 49 | 0 |
| Inverell.. | b | 66 | 34 | 0 |
| Bourke .. | b | 74 | 44 | 0 |
| Narrabri | b | 71 | 44 | 0 |
| Armidale | b | 69 | 33 | 0 |
| Bendem'r | b | 65 | 32 | 0 |
| Gunned'h | b | 80 | 30 | 0 |
| Coonab'rn | b | 68 | 29 | 0 |
| P.Macqrie | b | 66 | 49 | 0 |
| Murr'undi | b | 64 | 41 | 0 |
| Cassilis. | n | 61 | 35 | 0 |
| Mus'brook | b | 74 | 38 | 0 |
| Dubbo.... | b | 64 | 43 | 0 |
| Mudgee. | b | 63 | 37 | 0 |
| Maitland. | b | . | 49 | 0 |
| Hill End. | b | 52 | 31 | 0 |
| Newcastle | b | 76 | 47 | 0 |
| Orange. | b | 51 | 32 | 0 |
| Bathurst. | b | 56 | 31 | 0 |
| Condob'in | .. | .. | .. | .. |
| MtVict'ria | b | 58 | 33 | 0 |
| Forbes... | b | 83 | 59 | 0 |
| SYDNEY. . | c | 62 | 50 | 0·65 |
| 23 67 | | E | | |
| Pictor | b | 67 | 42 | 0 |
| Wentw'th | b | 67 | 52 | 0 |
| Young... | b | 61 | 36 | 0 |
| Wollgo'ng | b | 66 | 42 | 0 |
| Moss Vale | f | 59 | 36 | 0 |
| Euston... | b | 76 | 40 | 0 |
| Goulburn | b | 61 | 29 | 0 |
| Wagga... | b | 64 | 36 | 0 |
| Cape Geo. | b | 62 | | 0 |
| Queanb'n | b | 65 | 35 | 0 |
| Deniliq'in | b | 65 | 40 | 0 |
| Moruya.. | b | 63 | 46 | 0 |
| Kiandra.. | b | 40 | 19 | 0 |
| Albury.. | b | 61 | 30 | 0 |
| Bodalla.. | b | 70 | 36 | 0 |
| Cooma... | n | 62 | 38 | 0 |
| Eden.... | b | 65 | 41 | 0 |
| Gabo Isl'd | b | 60 | 51 | 0 |




Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




34 59· h. for Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·20 on S W. coast.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

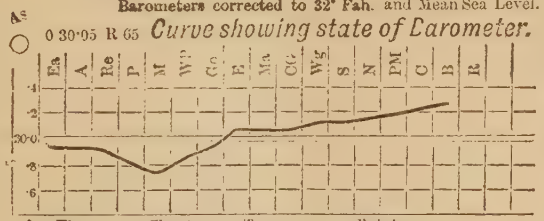
**COMPILED** from **Telegrams** for 9 A.M., October.. 8 1880, with **Notes** to 3 P.M.

**Sydney Observatory.**

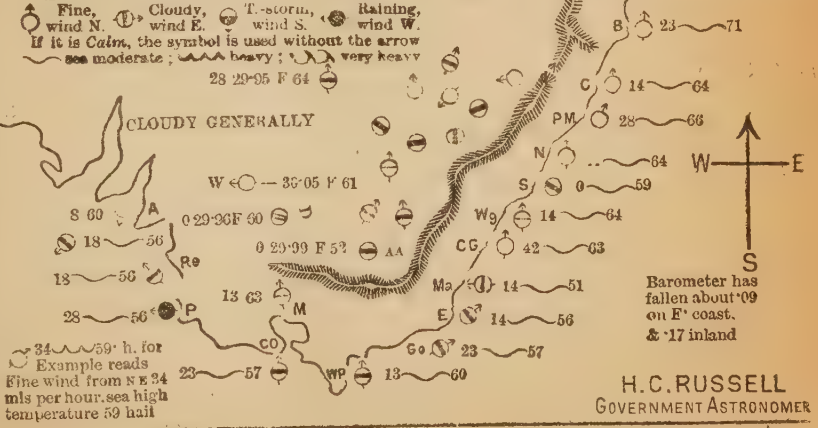
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** October 1....43·239.
**Total Rainfall from Jan. 1st to** October 8 .. 24·013.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 81 | 45 | 0 |
| Tenterfild | b | 70 | 31 | 0 |
| Moree.... | b | 69 | 55 | 0 |
| Grafton.. | b | 74 | 57 | 0 |
| Inverell.. | b | 67 | 40 | 0 |
| Bourke .. | g | 77 | 43 | 0 |
| Narrabri | b | 73 | 46 | 0 |
| Armidale | b | 65 | 40 | 0 |
| Bendem'r | b | 68 | 34 | 0 |
| Gunned'h | g | .. | . | 0 |
| Coonab'rn | g | 73 | 33 | 0 |
| P.Macqrie | b | 70 | 54 | 0 |
| Murr'undi | b | 67 | 41 | 0 |
| Cassilis. | g | 72 | 41 | 0 |
| Mus'br'ok | b | 75 | 40 | 0 |
| Dubbo... | g | 65 | 46 | 0 |
| Mudgee. | g | 72 | 39 | 0 |
| Maitland. | b | 70 | 52 | 0 |
| Hill End. | c | 60 | 37 | 0 |
| Newcastle | b | 67 | 57 | 0 |
| Orange. | g | 59 | 37 | 0 |
| Bathurst. | g | 66 | 35 | 0 |
| Condob'ln | c | 60 | 49 | 0 |
| MtVict'ria | c | 65 | 40 | 0 |
| Forbes... | c | 78 | 33 | 0 |
| Sydney. . | c | 63 | 51 | 0 |
| 13 65 | | E | | |
| Pictor | o | 65 | 42 | 0 |
| Wentw'th | b | 79 | 55 | 0·68 |
| Young... | g | 6[illegible] | 44 | 0 |
| Wollgo'ng | c | 71 | 47 | 0 |
| Moss Vale | g | 63 | 45 | 0 |
| Euston... | b | 64 | 45 | 0 |
| Goulburn | g | 69 | 33 | 0 |
| Wagga... | g | 72 | 49 | 0 |
| Cape Geo. | b | 63 | | 0 |
| Queanb'n | b | 69 | 43 | 0 |
| Deniliq in | g | 71 | 54 | 0 |
| Moruya.. | g | 63 | 43 | 0 |
| Kiandra.. | g | 38 | 21 | 0 |
| Albury.. | g | 70 | 43 | 0 |
| Bodalla.. | g | 68 | 36 | 0 |
| Cooma... | n | 66 | 30 | 0 |
| Eden.... | g | 63 | 49 | 0 |
| Gabo Isl'd | g | 66 | 54 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy




**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Barometer has fallen about ·09 on F' coast. & ·17 inland

H. C. RUSSELL
Government Astronomer

# WEATHER MAP.

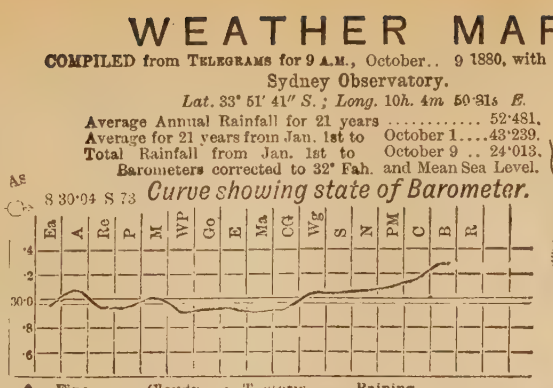
**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 9 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s E.*

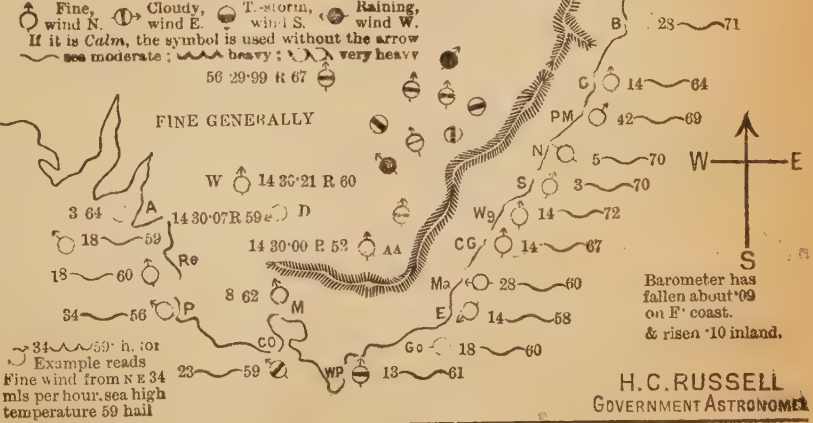
Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1....43·239.
Total Rainfall from Jan. 1st to October 9 .. 24·013.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 83 | 55 | 0 |
| Tenterfild | b | 71 | 41 | 0 |
| Moree.... | b | 77 | 45 | 0 |
| Grafton.. | b | 75 | 58 | 0 |
| Inverell.. | p | 72 | 56 | 0 |
| Bourke .. | c | 86 | 59 | 0 |
| Narrabri | b | 70 | 61 | 0 |
| Armidale | b | 65 | 40 | 0·30 |
| Bendem'r | b | 70 | 45 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | g | 73 | 48 | 0 |
| P.Macqrie | b | 72 | 62 | 0 |
| Murr'undi | b | 69 | 57 | 0 |
| Cassilis.. | b | 73 | 40 | 0 |
| Mus'br'ok | b | 83 | 45 | 0 |
| Dubbo... | g | 72 | 54 | 0 |
| Mudgee.. | g | 70 | 46 | 0 |
| Maitland. | b | 74 | 58 | 0 |
| Hill End. | g | 63 | 46 | 0 |
| Newcastle | b | 79 | 59 | 0 |
| Orange.. | g | 64 | 47 | 0 |
| Bathurst. | g | 67 | 44 | 0 |
| Condob'lin | . | .. | .. | .. |
| MtVict'ria | b | 66 | 51 | 0 |
| Forbes... | g | 79 | 57 | 0 |
| SYDNEY. . | b | 71 | 59 | 0 |
| Picton | b | 70 | 48 | 0 |
| Wentw'th | b | 72 | 46 | 0 |
| Young... | p | 70 | 50 | 0·10 |
| Wollgo'ng | b | 71 | 56 | 0 |
| Moss Vale | b | 66 | 52 | 0 |
| Euston... | b | 77 | 41 | 0·25 |
| Goulburn | b | 69 | 48 | 0 |
| Wagga... | g | 70 | 44 | 0 |
| Cape Geo. | b | 87 | .. | 0 |
| Queanb'n | b | 72 | 45 | 0 |
| Deniliq in | b | 72 | 43 | 0·02 |
| Moruya.. | b | 68 | 49 | 0 |
| Kiandra.. | b | 50 | 23 | 0 |
| Albury.. | b | 71 | 37 | 0·04 |
| Bodalla.. | b | 69 | 41 | 0·07 |
| Cooma... | n | 67 | 30 | 0 |
| Eden.... | b | 63 | 42 | 0 |
| Gabo Isl'd | b | 61 | 52 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

Example reads
Fine wind from N E 34 mls per hour. sea high temperature 59 hail




**WIND SCALE.**
1-Li't brze
2-Mod. ,,
3-Fresh ,,
6-Strg gale
7-Whole ,,

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·09 on E' coast. & risen ·10 inland.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 11 1880, with **NOTES** to 3 P.M

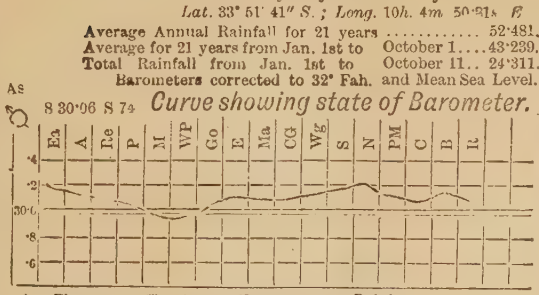
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s E*

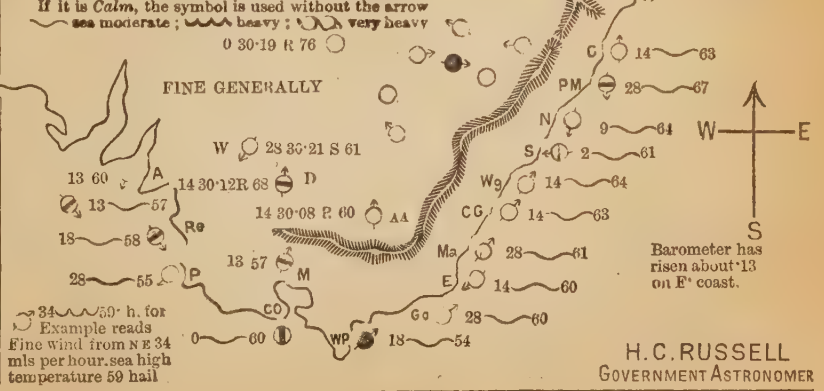
Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 11.. 24·311.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 88 | 55 | 0 |
| Tenterfild | b | 74 | 41 | 0 |
| Moree.... | b | 73 | 63 | 0·76 |
| Grafton.. | g | 79 | 53 | 0·15 |
| Inverell.. | b | 72 | 48 | 0·08 |
| Bourke .. | b | 85 | 53 | 0 |
| Narrabri | b | 81 | 56 | 0.10 |
| Armidale | r | 63 | 42 | 0·18 |
| Bendem'r | r | 71 | 49 | 0·48 |
| Gunned'h | b | 84 | 47 | 0 |
| Coonab'rn | b | 79 | 48 | 0·46 |
| P.Macqrie | b | 72 | 57 | 0 |
| Murr'undi | b | 74 | 44 | 0 |
| Cassilis. | b | 78 | 47 | 0 |
| Mus'br'ok | b | 85 | 55 | 0·04 |
| Dubbo... | b | 72 | 49 | 0 |
| Mudgee.. | b | 86 | 44 | 0 |
| Maitland. | g | 82 | 61 | 0·75 |
| Hill End. | b | 65 | 41 | 0 |
| Newcastle | b | 75 | 51 | 0 |
| Orange.. | b | 65 | 41 | 0 |
| Bathurst. | b | 72 | 40 | 0·09 |
| Condob'lin | . | .. | .. | .. |
| MtVict'ria | b | 70 | 42 | 0 |
| Forbes... | b | 75 | 45 | 0 |
| SYDNEY. . | c | 69 | 56 | 0·30 |
| Picton | b | 77 | 46 | 0·04 |
| Wentw'th | b | 86 | 52 | 0 |
| Young... | b | 73 | 47 | 0 |
| Wollgo'ng | b | 71 | 53 | 0 |
| Moss Vale | b | 68 | 42 | 0 |
| Euston... | b | 93 | 52 | 0 |
| Goulburn | b | 74 | 42 | 0·22 |
| Wagga... | b | 52 | 41 | 0 |
| Cape Geo. | b | 65 | .. | 0 |
| Queanb'n | b | 77 | 45 | 0 |
| Deniliq'in | b | 79 | 45 | 0 |
| Moruya.. | b | 66 | 48 | 0 |
| Kiandra.. | b | 38 | 20 | 0 |
| Albury.. | b | 80 | 40 | 0 |
| Bodalla.. | b | 74 | .. | 0 |
| Cooma... | n | 75 | 31 | 0 |
| Eden.... | b | 70 | 52 | 0·06 |
| Gabo Isl'd | b | 72 | 54 | 0 |

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy




WEATHER.
b-Blue sky ..
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

MILS WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about ·13 on E' coast.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 12 1880, with NOTES to 3 P.M

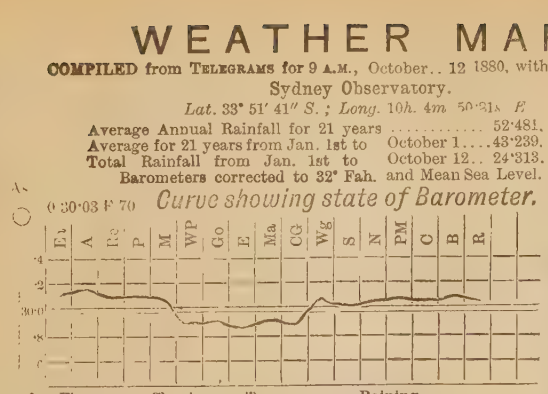
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·21*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 12.. 24·313.
Barometers corrected to 32° Fah. and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 86 | 53 | 0 |
| Tenterfild | b | 70 | 41 | 0 |
| Moree.... | b | 73 | 41 | 0 |
| Grafton.. | b | 70 | 56 | 0·06 |
| Inverell . | b | 76 | 41 | 0 |
| Bourke .. | c | 86 | 59 | 0 |
| Narrabri | b | 80 | 51 | 0 |
| Armidale | b | 68 | 41 | 0·33 |
| Bendem'r | b | 72 | 42 | 0 |
| Gunned'h | b | 90 | 39 | 0 |
| Coonab'rn | b | 79 | 43 | 0 |
| P.Macqrie | b | 72 | 53 | 0·06 |
| Murr'undi | b | 73 | 43 | 0 |
| Cassilis.. | b | 73 | 45 | 0 |
| Mus'br'ok | b | 82 | 45 | 0 |
| Dubbo... | g | 74 | 64 | 0 |
| Mudgee.. | g | 84 | 46 | 0 |
| Maitland. | b | 75 | 55 | 0 |
| Hill End . | g | 68 | 44 | 0 |
| Newcastle | b | 75 | 54 | 0 |
| Orange.. | g | 64 | 43 | 0 |
| Bathurst. | g | 74 | 48 | 0 |
| Condob'lin | : | ... | ... | .. |
| MtVict'ria | g | 73 | 41 | 0 |
| Forbes... | g | 84 | 49 | 0 |
| SYDNEY.. | g | 68 | 56 | 0 |
| 0 65 | L | | | |
| Picton | o | 74 | 49 | 0 |
| Wentw'th | b | 80 | 46 | 0 |
| Young... | g | 77 | 57 | 0·07 |
| Wollgo'ng | c | 72 | 55 | 0 |
| Moss Vale | g | 71 | 51 | 0 |
| Euston... | b | 91 | 49 | 0 |
| Goulburn | g | 77 | 50 | 0 |
| Wagga... | b | 83 | 51 | 0 |
| Cape Geo. | c | 66 | | 0 |
| Queanb'n | g | 79 | 48 | 0 |
| Deniliq'in | b | 84 | 44 | 0 |
| Moruya.. | g | 68 | 52 | 0 |
| Kiandra.. | b | 60 | 30 | 0 |
| Albury.. | b | 82 | 40 | 0 |
| Bodalla.. | c | 73 | 43 | 0 03 |
| Cooma... | b | 75 | 35 | 0·04 |
| Eden.... | g | 60 | 52 | 0·04 |
| Gabo Isl'd | c | 68 | 54 | 0·02 |

*Curve showing state of Barometer.*

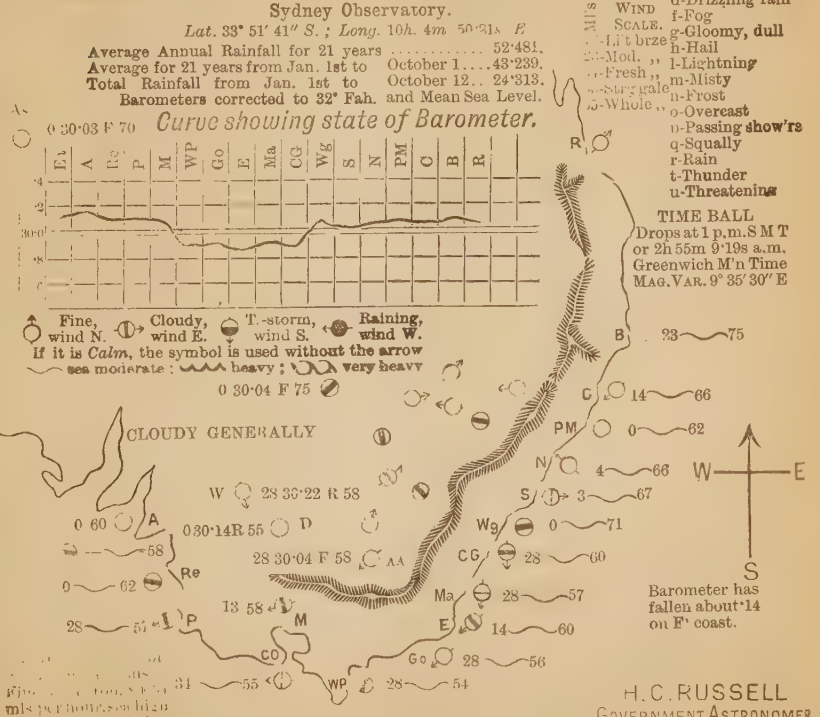



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
*If it is Calm*, the symbol is used without the arrow
sea moderate : heavy ; very heavy

WIND SCALE.
1-Lt brze
2-Mod. ,,
3-Fresh ,,
4-Stg gale
5-Whole ,,

WEATHER.
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E




Barometer has fallen about ·14 on E. coast.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., October.. 13 1880, with NOTES to 3 P.M**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·21*s E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to October 1**....43·239.
**Total Rainfall from Jan. 1st to October 13**.. 24·333.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 80 | 56 | 0·35 |
| Tenterfild | c | 77 | 38 | 0 |
| Moree.... | g | 76 | 66 | 0 |
| Grafton.. | b | 73 | 57 | 0·17 |
| Inverell.. | g | 78 | 49 | 0 |
| Bourke .. | b | 89 | 58 | 0 |
| Narrabri | g | 82 | 52 | 0 |
| Armidale | t | 69 | 41 | 0 |
| Bendem'r | t | 71 | 44 | 0·10 |
| Gunned'h | b | .. | .. | 0 |
| Coonab'rn | g | 80 | 50 | 0·11 |
| P.Macqrie | b | 70 | 54 | 0 |
| Murr'undi | g | 72 | 55 | 0 |
| Cassilis.. | b | 60 | 36 | 0 |
| Mus'br'ok | b | 84 | 53 | 0·01 |
| Dubbo... | b | 72 | 55 | 0 |
| Mudgee.. | r | 77 | 48 | 0 |
| Maitland. | b | 81 | 60 | 0·08 |
| Hill End. | b | 68 | 44 | 0·39 |
| Newcastle | b | 79 | 54 | 0 |
| Orange.. | b | 67 | 45 | 0.14 |
| Bathurst. | b | 71 | 45 | 0·57 |
| Condob'ln | b | 66 | 57 | .. |
| MtVict'ria | b | 67 | 46 | 0 |
| Forbes... | b | 78 | 53 | 0 |
| SYDNEY. . | b | 73 | 56 | 0·20 |
| Picton | o | 75 | 55 | 0·53 |
| Wentw'th. | b | 77 | 48 | 0 |
| Young... | b | 73 | 45 | 0 |
| Wollgo'ng | p | 71 | 54 | 0·54 |
| Moss Vale | g | 69 | 48 | 0·17 |
| Euston... | b | 81 | 50 | 0 |
| Goulburn | o | 74 | 41 | 0·14 |
| Wagga... | b | 80 | 46 | 0 |
| Cape Geo. | b | 66 | .. | 0·07 |
| Queanb'n | b | 77 | 45 | 0 |
| Deniliq'in | b | 74 | 44 | |
| Moruya.. | b | .. | .. | 0 |
| Kiandra.. | b | 60 | 30 | 0 |
| Albury.. | b | 77 | 42 | 0 |
| Bodalla.. | b | 73 | 40 | 0·14 |
| Cooma... | g | 72 | 36 | 0 |
| Eden.... | b | 66 | 56 | 0·23 |
| Gabo Isl'd | r | 66 | 49 | 0 |

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
M's
13-Lt brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
65-Whole ,,

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

FINE GENERALLY

Barometer has risen about ·07 on S. coast.

Example reads
Fine wind from N E 34 mls per hour. sea high.. temperature 59 hail

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

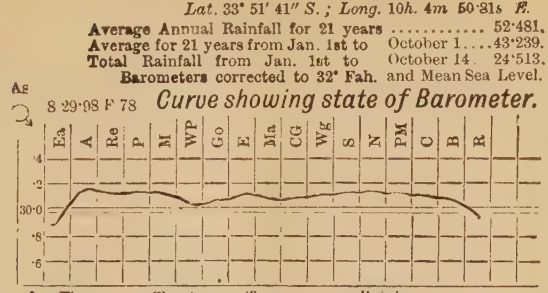
**COMPILED** from TELEGRAMS for 9 A.M., October.. 14 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to October 1**....43·239.
**Total Rainfall from Jan. 1st to October 14** .. 24·513.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 89 | 60 | 0·48 |
| Tenterfild | g | 71 | 41 | 0 |
| Moree.... | b | 74 | 65 | 0 |
| Grafton.. | b | 71 | 59 | 0·14 |
| Inverell.. | b | 72 | 45 | 0·04 |
| Bourke .. | c | 87 | 58 | 0 |
| Narrabri | b | 76 | 52 | 0 |
| Armidale | g | 69 | 41 | 0 |
| Bendem'r | b | 69 | 45 | 0·14 |
| Gunned'h | g | 81 | 42 | 0 |
| Coonab'rn | g | 78 | 45 | 0·01 |
| P.Macqrie | g | 72 | 53 | 0 |
| Murr'undi | p | 74 | 50 | 0 |
| Cassilis.. | g | 71 | 53 | 0 |
| Mus'br'ok | b | 84 | 48 | 0 |
| Dubbo... | b | 74 | 53 | 0 |
| Mudgee.. | g | 83 | 51 | 0 |
| Maitland. | b | 71 | 57 | 0 |
| Hill End. | c | 69 | 39 | 0 |
| Newcastle | b | 68 | 56 | 0 |
| Orange.. | b | 65 | 43 | 0 |
| Bathurst. | g | 70 | 44 | 0 |
| Condob'ln | b | .. | .. | .. |
| MtVict'ria | g | 59 | 38 | 0 |
| Forbes... | b | 80 | 49 | 0 |
| SYDNEY.. | g | 59 | 53 | 0 |
| (1) 18 61 | E | | | |
| Picton | g | 63 | 51 | 0 |
| Wentw'th | b | 79 | 47 | 0 |
| Young... | b | 71 | 47 | 0 |
| Wollgo'ng | c | 60 | 51 | 0 |
| Moss Vale | g | 55 | 43 | 0 |
| Euston... | b | 81 | 42 | 0 |
| Goulburn | p | 71 | 44 | 0 |
| Wagga... | b | 76 | 43 | 0 |
| Cape Geo. | g | 61 | .. | 0 |
| Queanb'n | g | 77 | 43 | 0 |
| Deniliq'in | b | 69 | 40 | |
| Moruya.. | g | 64 | 44 | 0 |
| Kiandra.. | b | 50 | 22 | 0 |
| Albury.. | b | 75 | 38 | 0 |
| Bodalla.. | g | 67 | 46 | 0 |
| Cooma... | n | 60 | 57 | 0 |
| Eden.... | b | 61 | 45 | 0 |
| Gabo Isl'd | b | 70 | 46 | 0·06 |




*Curve showing state of Barometer.*

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
*If it is Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

14 29·99 R 67

CLOUDY GENERALLY ON COAST

W 28 36·28 R 59

8 60 A 1430·17 R 52

18 61 Re

8 56

13 56 P

0 30·05 F 57 AA

13 52 M

34 59 h. for
Example reads
Fine wind from NE 34
mls per hour, sea high
temperature 59 hail

3 57 CO

WP 23 51

Go 8 58

E 14 53

Ma 14 54

CG 0 56

Wg 14 60

S 1 57

N 5 62

PM 14 60

C 28 62

B 34 70

R 29·99

WIND SCALE.
Mls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
55-Strg gale
55-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has risen about ·15 on E. coast.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., October.. 15 1880, with NOTES to 3 P.M.

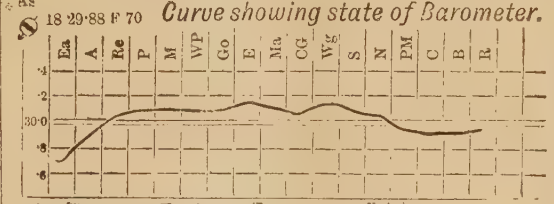
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

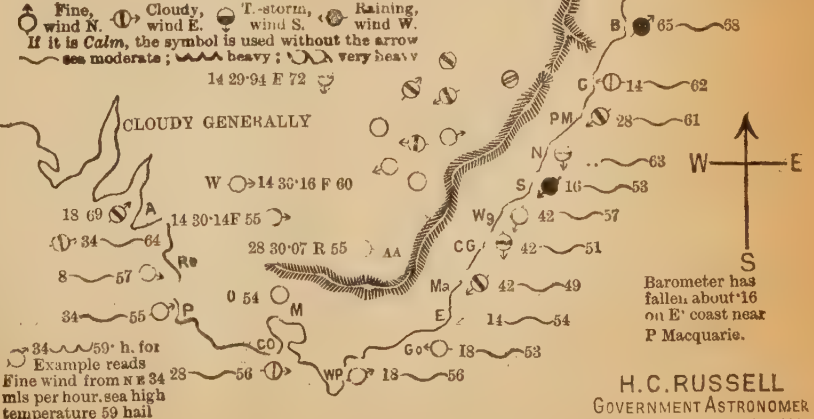
**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** October 1....43·239.
**Total Rainfall from Jan. 1st to** October 15. 24·598.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 69 | 57 | 0·14 |
| Tenterfild | g | 63 | 43 | 0·60 |
| Moree.... | c | 70 | 63 | 0 |
| Grafton.. | b | 61 | 59 | 0 |
| Inverell.. | b | 74 | 58 | 0 |
| Bourke .. | b | 87 | 55 | 0 |
| Narrabri | b | 75 | 58 | 0 |
| Armidale | g | 69 | 41 | 0·51 |
| Bendem'r | g | 73 | 54 | 1·20 |
| Gunned'h | c | 80 | 46 | 0 |
| Coonab'rn | b | 79 | 40 | 0 |
| P.Macqrie | g | 64 | 55 | 0·10 |
| Murr'undi | g | 64 | 51 | 0 |
| Cassilis.. | g | 78 | 54 | 0 |
| Mus'br'ok | g | 73 | 50 | 0 |
| Dubbo... | b | 74 | 46 | 0 |
| Mudgee.. | g | 81 | 49 | 0 |
| Maitland. | g | 69 | 55 | 0 |
| Hill End. | g | 67 | 39 | 0 |
| Newcastle | g | 75 | 55 | 0 |
| Orange.. | b | 66 | 40 | 0 |
| Bathurst. | g | 68 | 39 | 0 |
| Condob'ln | . | . | .. | .. |
| MtVict'ria | g | 64 | 39 | 0·02 |
| Forbes... | b | 75 | 51 | 0 |
| SYDNEY. . | g | 61 | 51 | 0·09 |
| 13 62 | | L | | |
| Pictor | c | 67 | 59 | 0·09 |
| Wentw'th | b | 77 | 46 | 0 |
| Young... | b | 68 | 46 | 0 |
| Wollgo'ng | b | 65 | 48 | 0·15 |
| Moss Vale | g | 62 | 40 | 0·06 |
| Euston... | b | 82 | 44 | 0 |
| Goulburn | b | 71 | 42 | 0·02 |
| Wagga... | b | 78 | 45 | 0 |
| Cape Geo. | c | 56 | | 0·84 |
| Queanb'n | c | 74 | 43 | 0·20 |
| Deniliq'in | b | 70 | 41 | 0 |
| Moruya.. | b | 62 | 41 | 0 |
| Kiandra.. | b | 43 | 19 | 0 |
| Albury.. | b | 76 | 42 | 0 |
| Bodalla.. | p | 65 | 39 | 0·20 |
| Cooma... | n | 69 | 28 | 0 |
| Ed[illegible].... | b | 58 | 44 | 0 |
| Gabo Isl'd | b | 58 | 46 | 0·29 |

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·16 on E' coast near P Macquarie.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 16 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·31*s* *E.*

**Average** Annual Rainfall for 21 years ............ 52·481.
**Average for 21 years from Jan. 1st to** October 1....43·239.
**Total** Rainfall from Jan. 1st to October 16 24·639.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 83 | 55 | 0·04 |
| Tenterfild | g | 74 | 40 | 0 |
| Moree.... | r | 75 | 47 | 0 |
| Grafton.. | b | 71 | 21 | 0 |
| Inverell.. | g | 74 | 53 | 0 |
| Bourke .. | g | 86 | 52 | 0 |
| Narrabri | g | 82 | 51 | 0 |
| Armidale | g | 69 | 41 | 0 |
| Bendem'r | g | 74 | 40 | 0·02 |
| Gunned'h | g | 83 | 42 | 0 |
| Coonab'rn | g | 77 | 47 | 0 |
| P.Macqrie | p | 66 | 53 | 1·10 |
| Murr'undi | g | 58 | 47 | 0 |
| Cassilis.. | g | 62 | 51 | 0 |
| Mus'br'ok | b | 67 | 47 | 0·07 |
| Dubbo... | g | 72 | 52 | 0 |
| Mudgee.. | g | 71 | 48 | 0 |
| Maitland. | p | 63 | 59 | 0·11 |
| Hill End. | g | 68 | 39 | 0·44 |
| Newcastle | c | 64 | 53 | 0 |
| Orange.. | g | 61 | 40 | 0 |
| Bathurst. | g | 61 | 43 | 0 |
| Condob'ln | c | 62 | 55 | 0 |
| MtVict'ria | f | 53 | 32 | 0 04 |
| Forbes... | g | 85 | 43 | 0 |
| SYDNEY... | d | 60 | 52 | 0·04 |
| Picton | o | 59 | 43 | 0 |
| Wentw'th | . | .. | .. | .. |
| Young... | c | 64 | 46 | 0 |
| Wollgo'ng | c | 64 | 49 | 0 |
| Moss Vale | g | 64 | 49 | 0·06 |
| Euston... | . | .. | . | .. |
| Goulburn | g | 61 | 42 | 0 |
| Wagga... | . | .. | .. | .. |
| Cape Geo. | g | 56 | .. | 0·12 |
| Queanb'n | g | 65 | 40 | 0 |
| Deniliq'in | . | .. | .. | .. |
| Moruya.. | g | 62 | 51 | 0 |
| Kiandra.. | b | 45 | 21 | 0 |
| Albury.. | g | 77 | 42 | 0 |
| Bodalla.. | . | .. | .. | .. |
| Cooma... | c | 65 | 28 | 0 |
| Eden.... | c | 63 | 47 | 0 |
| Gabo Isl'd | b | 66 | 53 | 0 |

*Curve showing state of Barometer.*

**Fine, wind N.** Cloudy, wind E. T.-storm, wind S. **Raining, wind W.**
**If it is** *Calm*, **the symbol is used without the arrow**
**sea moderate ; heavy ; very heavy**

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. (Ml's)
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

34 59· h. for
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail

Barometer has
risen about ·10
on E· coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

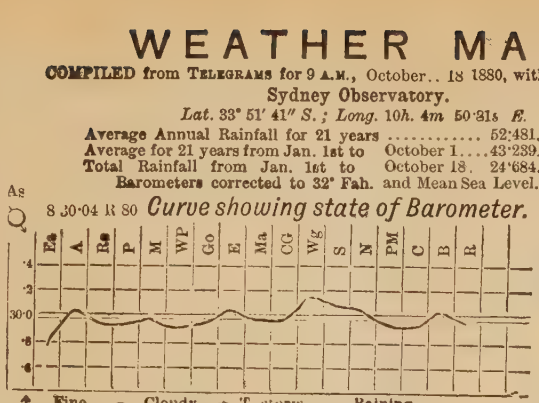
**COMPILED** from **TELEGRAMS** for 9 **A.M.**, October.. 18 1880, with **NOTES** to 3 **P.M**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 18. 24·684.
**Barometers corrected to 32° Fah.** and Mean Sea Level.

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 83 | 58 | 0 |
| Tenterfild | b | 76 | 41 | 0 |
| Moree.... | b | 72 | 65 | 0 |
| Grafton.. | b | 80 | 61 | 0 |
| Inverell.. | g | 76 | 53 | 0·30 |
| Bourke .. | b | 87 | 59 | 0 |
| Narrabri | c | 78 | 59 | 0 |
| Armidale | b | 70 | 42 | 0 |
| Bendem'r | b | 72 | 42 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 77 | 49 | 0·15 |
| P.Macq'rie | b | 71 | 57 | 0 |
| Murr'undi | o | 57 | 48 | 0 |
| Cassilis.. | b | 79 | 50 | 0 |
| Mus'br'ok | h | 84 | 50 | 0 |
| Dubbo... | o | 73 | 52 | 0 |
| Mudgee.. | b | 78 | 48 | 0 |
| Maitland. | c | 78 | 57 | 0 |
| Hill End. | b | 67 | 41 | 0 |
| Newcastle | c | 77 | 63 | 0 |
| Orange.. | b | 68 | 46 | 0 |
| Bathurst. | o | 71 | 47 | 0·03 |
| Condob'ln | . | .. | .. | .. |
| Mt Vict'ria | b | 65 | 43 | 0·18 |
| Forbes... | b | 77 | 53 | 0 10 |
| SYDNEY. . | g | 69 | 58 | 0·05 |
| Picton | b | 72 | 51 | 0·21 |
| Wentw'th | b | 79 | 47 | 0 |
| Young... | p | 74 | 53 | 0·12 |
| Wollgo'ng | c | 71 | 56 | 0 |
| Moss Vale | b | 68 | 50 | 0 |
| Euston... | b | 83 | 45 | 0 |
| Goulburn | b | 69 | 51 | 0·05 |
| Wagga... | g | 72 | 49 | 0·83 |
| Cape Geo. | b | 60 | .. | 0 |
| Queanb'n | b | 73 | 50 | 0 |
| Deniliq'in | b | 77 | 48 | 0 |
| Moruya.. | g | 72 | 56 | 0 |
| Kiandra.. | b | 40 | 18 | 0 |
| Albury.. | g | 72 | 50 | 0·35 |
| Bodalla.. | g | 71 | 53 | 0 |
| Cooma... | b | 75 | 44 | 0 |
| Eden.... | c | 66 | 54 | 0.02 |
| Gabo Isl'd | g | 70 | 54 | 0·15 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy.

**WIND SCALE.** (Miles)
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale ,,
65-Whole ,,

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

CLOUDY GENERALLY ROUND COAST

0 30·00 R 79
W 14 30·14 .. 62
8 63 A
0 30·09 63
18 56
8 56 Re
0 30·00 F 61 AA
13 59
13 56 P M
34 59 h. for
Example reads
Fine wind from NE 34
mls per hour, sea high
temperature 59 hail
3 59 CO
WP 8 55
Go 18 59
E 14 63
Ma 14 59
CG 42 30
Wg 28 65
S 16 62
N 62
PM 14 69
C 14 66
B 48 73
R

Barometer has fallen about 11 on E. coast

W E S

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 19 1880, with **NOTES** to 3 P.M

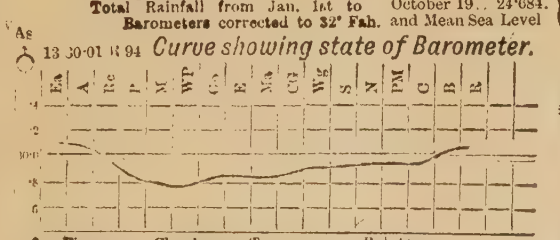
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·3*s* *E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 19... 24·684.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | o | 89 | 58 | 0·10 |
| Tenterfield | b | 67 | 38 | u |
| Moree.... | b | 79 | 68 | 0 |
| Grafton.. | b | 84 | 59 | 0 |
| Inverell.. | b | 75 | 53 | 0·22 |
| Bourke .. | b | 90 | 58 | 0 |
| Narrabri | b | 84 | 55 | 0 |
| Armidale | b | 70 | 41 | 0 |
| Bendem'r | b | 76 | 43 | 0 |
| Gunned'h | b | 92 | 43 | 0 |
| Coonab'rn | b | 83 | 44 | 0 |
| P.Macqrie | g | 73 | 58 | 0 |
| Murr'undi | b | 76 | 51 | 0 |
| Cassilis. | b | 80 | 46 | 0 |
| Mus br'ok | b | 89 | 55 | 0 |
| Dubbo... | o | 76 | 54 | u |
| Mudgee.. | b | 88 | 47 | 0 |
| Maitland. | b | 75 | 64 | u |
| Hill End. | g | 7 | 52 | 0 |
| Newcastle | g | 73 | 62 | u |
| Orange.. | b | 71 | 43 | u |
| Bathurst. | o | 74 | 43 | 0 |
| Condob'in | b | 68 | 53 | 20 |
| Mt Vict'ria | b | 72 | 48 | u |
| Forbes... | b | 84 | 53 | 0 |
| SYDNEY.. | b | 67 | 55 | |
| Picton | b | 75 | 54 | u |
| Wentw'th | b | 79 | 55 | 0·05 |
| Young... | b | 72 | 48 | 0 |
| Wollgo'ng | b | 71 | 52 | 0 |
| Moss Vale | b | 69 | 49 | 0 |
| Euston... | b | 81 | 40 | 0 |
| Goulburn | b | 73 | 41 | 0 |
| Wagga... | b | 80 | 48 | 0 |
| Cape Geo. | f | 67 | .. | 0 |
| Queanb'n | b | 78 | 45 | 0 |
| Deniliq'in | b | 78 | 49 | 0 |
| Moruya.. | g | 70 | 56 | 0 |
| Kiandra.. | b | 60 | 21 | 0 |
| Albury.. | b | 79 | 42 | 0·03 |
| Bodalla.. | o | .. | .. | 0 |
| Cooma... | b | 74 | 36 | 0 |
| Eden.... | b | 68 | 55 | 0 |
| Gabo Isl'd | b | 67 | 54 | 0 |

## Curve showing state of Barometer.




Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

WIND SCALE.
0-Calm
1-Lt brze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

R 30·02

B 34 73
C 14 66
PM 0 66
N 65
S 4 64
W 28 67
CG 14 60
Ma 28 57
E 14 65
Co 18 63
WP 13 60

0 29·97 F 82
FINE GENERALLY N.S. WALES
W 14 30·19 R 62
13 67 A
14 30·05 66
28 55
0 29·97 F 56 AA
18 58 Re
18 61
40 52 P
M
34 50 h. for Example reads
Fine wind from N E 34 mls per hour. sea high temperature 59 hail
48 53

Barometer has fallen about 15 on S, E' coast

W E S

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

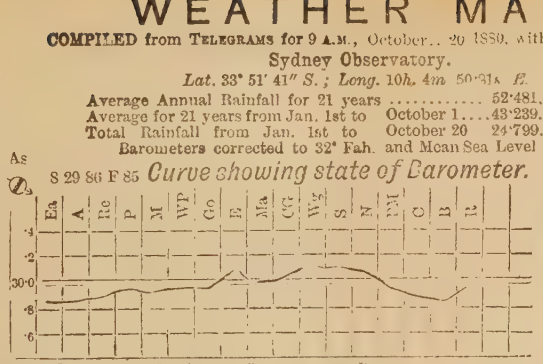
**COMPILED from TELEGRAMS for 9 A.M., October.. 20 1880, with NOTES to 3 P.M.**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 20 24·799.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wtr | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 90 | 41 | 0 |
| Tenterfild | b | 80 | 38 | 0 |
| Moree.... | g | 79 | 65 | 0 |
| Grafton.. | b | 87 | 60 | 0 |
| Inverell.. | b | 76 | 50 | 0 |
| Bourke .. | c | 97 | 62 | 0 |
| Narrabri | b | 85 | 55 | 0 |
| Armidale | b | 73 | 42 | 0 |
| Bendem'r | g | 80 | 47 | 0·06 |
| Gunned'h | . | .. | .. | . |
| Coonab'rn | g | 85 | 53 | 0 |
| P.Macqrie | g | 74 | 62 | 0 |
| Murr'undi | g | 79 | 59 | 0 |
| Cassilis.. | g | 8. | 5 | 0 |
| Mus'br'ok | g | 89 | 53 | 0 |
| Dubbo... | g | 81 | 51 | 0 |
| Mudgee.. | g | 86 | 58 | 0·09 |
| Maitland. | r | 83 | 61 | 0 |
| Hill End. | p | 72 | 42 | 0·15 |
| Newcastle | r | 87 | 5 | 0·62 |
| Orange.. | r | 75 | 51 | 0·29 |
| Bathurst. | r | 7. | 50 | 0·35 |
| Condob'lin | r | 67 | 59 | 0 |
| MtVict'ria | r | 7. | 43 | 0·35 |
| Forbes... | r | 86 | 5. | 0·11 |
| SYDNEY. . | d | 75 | 54 | 0·12 |
| 34 59 | | L | | |
| Pictol | d | 83 | 53 | 0·15 |
| Wentw'th | b | 75 | 52 | 0 |
| Young... | r | 73 | 5. | 0·13 |
| Wollgo'ng | g | 73 | 54 | 0 |
| Moss Vale | g | 74 | 45 | 0 |
| Euston... | g | 81 | 49 | 0 |
| Goulburn | g | 73 | 46 | 0·05 |
| Wagga... | g | 67 | 46 | 0·11 |
| Cape Geo. | g | 70 | . | 0 |
| Queanb'n | g | 75 | 45 | 0 |
| Deniliq'in | c | 72 | 44 | 0·05 |
| Moruya.. | g | 74 | 52 | 0·05 |
| Kiandra.. | g | 54 | 41 | 0 |
| Albury.. | g | 62 | 37 | 0 |
| Bodalla.. | . | .. | .. | . |
| Cooma... | c | 70 | 30 | 0 |
| Eden.... | b | 68 | 47 | 0 |
| Gabo Isl'd | c | 72 | 56 | 0 |




**WEATHER.**

b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mls WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale ,,
55-Whole ,,

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

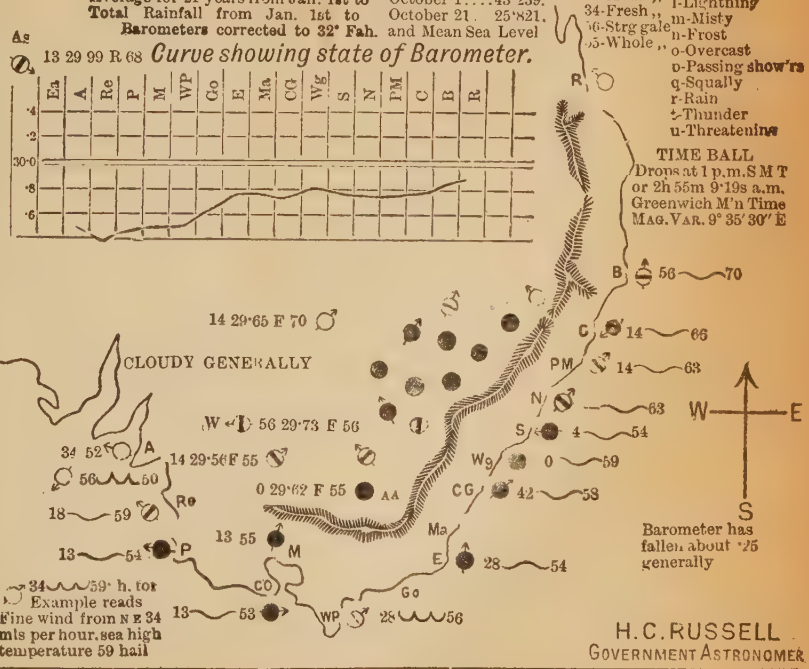
**COMPILED** from TELEGRAMS for 9 A.M., October.. 21 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to October 1....43·239.
**Total** Rainfall from Jan. 1st to October 21. 25·821.
**Barometers** corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 81 | 61 | 0·31 |
| Tenterfild | c | 50 | 41 | 0·10 |
| Moree.... | g | 75 | 69 | 0·20 |
| Grafton.. | g | 86 | 63 | 0 |
| Inverell.. | p | 76 | 60 | 0.35 |
| Bourke .. | c | 93 | 61 | 0·63 |
| Narrabri | r | 88 | 60 | 0·08 |
| Armidale | g | 73 | 41 | 0·49 |
| Bendem'r | g | 59 | 51 | 0·09 |
| Gunned'h | g | 79 | 53 | 0·07 |
| Coonab'rn | r | 85 | 58 | 0.57 |
| P.Macqrie | g | 65 | 60 | 0·27 |
| Murr'undi | r | 65 | 54 | 0·40 |
| Cassilis.. | r | 57 | 53 | 0 |
| Mus'br'ok | r | 64 | 56 | 0 05 |
| Dubbo... | r | 70 | 56 | 0·26 |
| Mudgee.. | p | 63 | 52 | 0·08 |
| Maitland. | d | 65 | 58 | 0·20 |
| Hill End. | r | 68 | 31 | 0.25 |
| Newcastle | g | 66 | 54 | 0·27 |
| Orange.. | r | 56 | 45 | 0·69 |
| Bathurst. | r | 50 | 40 | 0·67 |
| Condob'ln | . | .. | | . |
| MtVict'ria | r | 73 | 43 | 0·07 |
| Forbes... | r | 84 | 49 | 0·75 |
| SYDNEY. . | d | 55 | 51 | 1·02 |
| | | E | | |
| Pictor | d | 57 | 50 | 0·82 |
| Wentw'th | g | 79 | 53 | 0·07 |
| Young... | r | 58 | 49 | 1·15 |
| Wollgo'ng | r | 59 | 49 | 0·77 |
| Moss Vale | r | 54 | 42 | 0·69 |
| Euston... | c | 95 | 42 | 0 |
| Goulburn | g | 54 | 44 | 0·35 |
| Wagga... | r | 61 | 49 | 0· 1 |
| Cape Geo. | g | 56 | | 0·45 |
| Queanb'n | c | 65 | 44 | 0 |
| Deniliq'in | g | 75 | 50 | 0·20 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | r | 50 | 20 | 0 |
| Albury.. | r | 73 | 43 | 0 |
| Bodalla.. | . | .. | .. | . |
| Cooma... | c | 61 | 36 | 0 |
| Eden.... | r | 64 | 51 | 0·02 |
| Gabo Isl'd | | .. | .. | .. |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

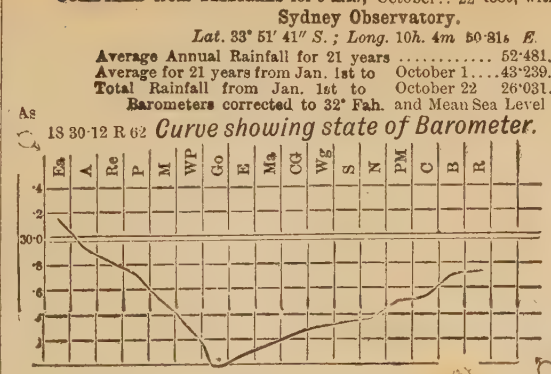
**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 22 1880, with **NOTES** to 3 P.M

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to October 1**.... 43·239.
**Total Rainfall from Jan. 1st to October 22** 26·031.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wtf | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 69 | 63 | 0·20 |
| Tenterfild | o | 68 | 39 | 0·90 |
| Moree.... | g | 74 | 61 | 1·04 |
| Grafton.. | b | 77 | 60 | 0·43 |
| Inverell.. | c | 71 | 49 | 0 85 |
| Bourke .. | c | 81 | 54 | 0 |
| Narrabri | c | 73 | 54 | 0·30 |
| Armidale | b | 64 | 42 | 0·87 |
| Bendem'r | g | 63 | 42 | 1·39 |
| Gunned'h | z | 72 | 44 | 0·72 |
| Coonab'rn | p | 73 | 47 | 1·07 |
| P.Macqrie | b | 70 | 56 | 0·06 |
| Murr'undi | g | 66 | 49 | 1·03 |
| Cassilis.. | g | 68 | 44 | 1·42 |
| Mus'br'ok | b | 72 | 45 | 0 44 |
| Dubbo... | g | 74 | 51 | 0·29 |
| Mudgee.. | r | 74 | 41 | 0·60 |
| Maitland. | o | 74 | 42 | 0·20 |
| Hill End. | r | 64 | 39 | 0·66 |
| Newcastle | b | 72 | 53 | 0 13 |
| Orange.. | r | 62 | 39 | 1·70 |
| Bathurst. | g | 63 | 40 | 0·90 |
| Condob'ln | r | 55 | 49 | 0 |
| MtVict'ria | p | 61 | 35 | 0·31 |
| Forbes... | p | 72 | 47 | 0·54 |
| SYDNEY.. | b | 65 | 54 | 0·21 |
| 18 61 | | L | | |
| Picton | b | 65 | 50 | 0·40 |
| Wentw'th | q | 69 | 47 | 0·07 |
| Young... | r | 67 | .. | 0·73 |
| Wollgo'ng | g | 65 | 52 | 0·36 |
| Moss Vale | r | 59 | 41 | 0·35 |
| Euston... | p | 81 | 36 | 0·02 |
| Goulburn | r | 61 | 39 | 0·72 |
| Wagga... | r | 64 | 46 | 1·05 |
| Cape Geo. | g | 65 | .. | 0·59 |
| Queanb'n | r | 55 | 38 | 1 41 |
| Deniliq'in | c | 64 | .. | 0·19 |
| Moruya.. | p | 70 | 50 | 0·26 |
| Kiandra.. | s | 39 | 18 | 0 |
| Albury.. | r | 62 | 45 | 1·46 |
| Bodalla.. | r | 60 | 45 | 0·80 |
| Cooma... | r | 62 | 40 | 0·60 |
| Eden.... | g | 58 | 49 | 0·42 |
| Gabo Isl'd | r | 58 | 56 | 1·72 |




**WIND SCALE.**

M'ls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

**WEATHER.**

b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

**TIME BALL**

Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen ·71 at Eden.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 23 1880, with **NOTES** to 3 P.M

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·31*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 23 26·068.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino | b | 79 | 51 | 0 |
| Tenterfild | b | 61 | 38 | 0 |
| Morce ... | b | 66 | 58 | 0 |
| Grafton.. | b | 77 | 59 | 0 |
| Inverell.. | b | 66 | 43 | 0 |
| Bourke .. | b | 77 | 50 | 0 |
| Narrabri | b | 69 | 47 | 0 |
| Armidale | b | 65 | 43 | 0 |
| Bendem'r | g | 62 | 43 | 0·08 |
| Gunned'b | b | 70 | 43 | 0·02 |
| Coonab'rn | g | 62 | 43 | 0 |
| P.Macqrie | b | 73 | 55 | 0 |
| Murr'undi | g | 57 | 51 | 0·16 |
| Cassilis.. | g | 60 | 52 | 0 |
| Mus'br'ok | b | 65 | 49 | 0 |
| Dubbo... | c | 64 | 51 | 0·05 |
| Mudgee.. | g | 61 | 48 | 0·09 |
| Maitland. | b | 68 | 57 | 0 |
| Hill End. | c | 68 | 38 | 0·61 |
| Newcastle | b | 68 | 56 | 0 |
| Orange.. | g | 63 | 39 | 0·20 |
| Bathurst. | g | 52 | 45 | 0 |
| Condob'ln | c | 56 | 46 | 0 |
| MtVict'ria | g | .. | .. | 0·09 |
| Forbes... | b | 70 | 48 | 0·45 |
| SYDNEY.. | c | 63 | 55 | 0 04 |
| 8 64 | | E | | |
| Picton | c | 63 | 55 | 0 |
| Wentw'th | c | 67 | 48 | 0 |
| Young... | g | 55 | 48 | 0·67 |
| Wollgo'ng | c | 67 | 55 | 0 |
| Moss Vale | b | 54 | 44 | 0·14 |
| Euston... | g | 71 | 48 | 0 |
| Goulburn | g | 52 | 44 | 0·19 |
| Wagga... | g | 61 | 46 | 0·22 |
| Cape Geo. | b | 64 | . | 0·15 |
| Queanb'n | b | 60 | 48 | 0 |
| Deniliq'in | b | 66 | 43 | 0 |
| Moruya.. | b | 65 | 51 | 0 |
| Kiandra.. | b | .. | 21 | 0 |
| Albury.. | b | 65 | 43 | 0·06 |
| Bedalla.. | g | 63 | 45 | 0·15 |
| Cooma... | c | 53 | 40 | 0·36 |
| Eden.... | g | 57 | 51 | 0·66 |
| Gabo Isl'd | r | 57 | 50 | 1·5 |

13 30 05 R 67

*Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

30·0

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

28 29·86 R 73

CLOUDY GENERALLY

W 42 30·15 R 57

8 60 A 28 29·92R 54 53

Re 18 59

28 29·72 R 54 AA

13 54 M P 28 55

CG 0 60

Ma 28 61

E 42 53

Go 34 56

WP 28 52

CO 19 55

34 59 h. for Example reads
Fine wind from NE 34 mls per hour, sea high temperature 59 hail

B 3 72

C 14 62

PM 42 66

N 66

S 8 62

Wg 42 66

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has risen about ·59 on S E coast

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

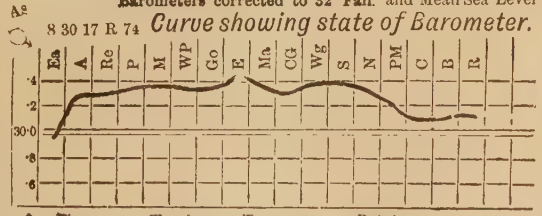
**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 25 1880, with **NOTES** to 3 P.M

Sydney Observatory.

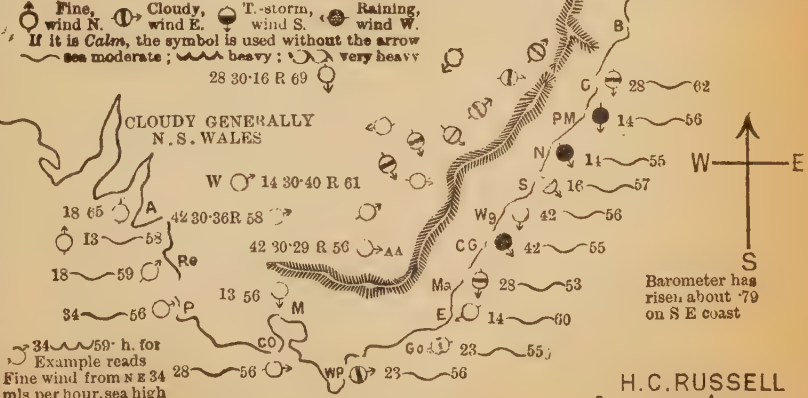
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to October 1....43·239.
**Total** Rainfall from Jan. 1st to October 25 26·016.
**Barometers** corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 88 | 59 | 0 |
| Tenterfild | c | 72 | 40 | 0 |
| Moree.... | b | 70 | 60 | 0 |
| Grafton.. | g | 78 | 60 | 0 |
| Inverell.. | b | 72 | 43 | 0 |
| Bourke .. | b | 82 | 50 | 0 |
| Narrabri | c | 76 | 49 | 0 |
| Armidale | g | 64 | 37 | 0 |
| Bendem'r | g | 69 | 41 | 0 |
| Gunned'h | b | 82 | 34 | 0 |
| Coonab'rn | b | 70 | 38 | 0 |
| P.Macqrie | r | 69 | 55 | 0·14 |
| Murr'undi | g | 63 | 45 | 0 |
| Cassilis.. | g | 65 | 33 | 0 |
| Mus'br'ok | g | 78 | 48 | 0·01 |
| Dubbo... | b | 69 | 46 | 0 |
| Mudgee.. | g | 75 | 58 | 0 |
| Maitland. | r | 79 | 50 | 0·90 |
| Hill End. | g | 56 | 35 | 0 |
| Newcastle | r | 65 | 52 | 0·91 |
| Orange.. | g | 62 | 43 | 0·16 |
| Bathurst. | g | 64 | 36 | 0·03 |
| Condob'ln | b | 58 | 48 | 0 |
| MtVict'ria | r | 59 | 40 | 0·50 |
| Forbes... | p | 73 | 43 | 0·15 |
| SYDNEY. | c | 63 | 55 | 0·11 |
| 28 83 | | E | | |
| Pictor | p | 69 | 50 | 0·31 |
| Wentw'th | b | 71 | 44 | 0 |
| Young... | c | 67 | 47 | 0·62 |
| Wollgo'ng | c | 65 | 51 | 0·23 |
| Moss Vale | g | 59 | 43 | 0·35 |
| Euston... | b | 76 | 15 | 0 |
| Goulburn | g | 69 | 41 | 0·51 |
| Wagga... | b | 65 | 40 | 0·18 |
| Cape Geo. | p | 59 | . | 0·55 |
| Queanb'n | b | 66 | 45 | 0·20 |
| Deniliq'in | b | 62 | 42 | 0 |
| Moruya.. | g | 61 | 46 | 0·24 |
| Kiandra.. | g | 38 | 19 | 0 |
| Albury.. | b | 69 | 37 | 0·05 |
| Bodalla.. | p | 64 | 49 | 0·20 |
| Cooma... | c | 60 | 35 | 0·67 |
| Eden.... | b | 65 | 45 | 0·62 |
| Gabo Isl'd | c | 66 | 51 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy




**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has risen about ·79 on S E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., October.. 26 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1..... 43·239.
Total Rainfall from Jan. 1st to October 26 26·016.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Weth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | p | 77 56 | | 0·50 |
| Tenterfild | g | 65 36 | | 0 |
| Moree.... | b | 70 61 | | 0 |
| Grafton.. | g | 63 54 | | 0·03 |
| Inverell.. | b | 75 41 | | 0·10 |
| Bourke .. | h | 72 50 | | 0 |
| Narrabri | b | 75 52 | | 0 |
| Armidale | g | 64 34 | | 0 |
| Bendem'r | b | 64 46 | | 0 |
| Gunned'h | o | 77 43 | | 0 |
| Coonab'rn | b | 68 39 | | 0 |
| P.Macqrie | b | 63 55 | | 1·70 |
| Murr'undi | g | 59 48 | | 0 |
| Cassilis.. | g | 69 42 | | 0 |
| Mus'br'ok | g | 64 43 | | 0·03 |
| Dubbo... | b | 67 54 | | 0 |
| Mudgee.. | b | 67 44 | | 0 |
| Maitland. | c | 65 55 | | 0·06 |
| Hill End. | b | 55 36 | | 0·01 |
| Newcastle | g | 66 53 | | 0 |
| Orange.. | h | 62 38 | | 0 |
| Bathurst. | b | 55 38 | | 0 |
| Condob'lin | b | 58 46 | | 0 |
| MtVict'ria | c | 53 34 | | 0·04 |
| Forbes... | b | 79 46 | | 0 |
| SYDNEY.. | c | 62 53 | | 0 |
| 18 64 | | E | | |
| Picton | g | 62 39 | | 0 |
| Wentw'th | c | 84 53 | | 0 |
| Young... | b | 60 43 | | 0 |
| Wollgo'ng | g | 65 45 | | 0 |
| Moss Vale | b | 58 36 | | 0·02 |
| Euston... | g | 83 53 | | 0 |
| Goulburn | b | 58 35 | | 0 |
| Wagga... | b | 70 45 | | 0 |
| Cape Geo. | b | 63 | | 0 |
| Queanb'n | b | 65 44 | | 0 |
| Deniliq'in | b | 75 47 | | 0 |
| Moruya.. | b | 61 42 | | 0 |
| Kiandra.. | b | 40 21 | | 0 |
| Albury.. | b | 73 59 | | 0 |
| Bodalla.. | b | 63 34 | | 0 |
| Cooma... | n | 63 30 | | 0 |
| Eden.... | b | 61 44 | | 0 |
| Gabo Isl'd | b | 66 50 | | 0 |

As 3 30 11 R 76 *Curve showing state of Barometer.*

Es A Re P M WP Go E Ma CG Wg S N PM C B R

30·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

42 30·20 R 68

CLOUDY IN VICTORIA

W 42 30·30 F 67

8 67 A 14 30·29F 60

28 61

Re

28 63

14 30·32 R 57 AA

23 61 M

40 65 P

CG 14 61

Ma 42 55

E 28 30

Go 28 56

34 59· h. for Example reads Fine wind from N E 34 mls per hour.sea high temperature 59 hail

48 61 WP 13 59

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

MIL'S WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

R

B 3 61

C 56 62

PM 42 63

N 9 63

S 6 59

W 0 61

W E S

Barometer has fallen about ·15 on S W coast.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

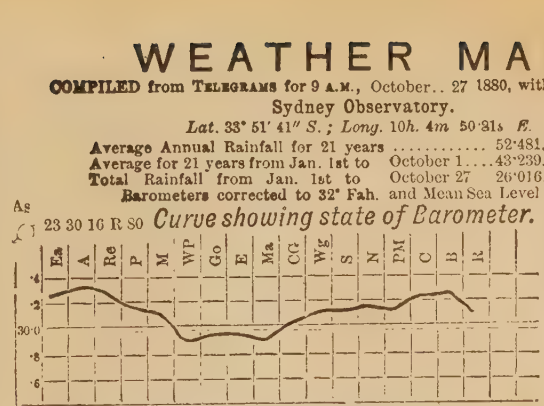
**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 27 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1.... 43·239.
Total Rainfall from Jan. 1st to October 27 26·016.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wdr | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 71 | 50 | 0 |
| Tenterfild | b | 59 | 27 | c |
| Moree.... | b | 72 | 63 | 0·02 |
| Grafton.. | b | 66 | 44 | 0 |
| Inverell.. | b | 66 | 43 | 0 |
| Bourke .. | c | 75 | 56 | 0 |
| Narrabri | b | 77 | 58 | 0 |
| Armidale | b | 65 | 33 | 0 |
| Bendem'r | b | 67 | 40 | 0 |
| Gunned'h | b | 84 | 44 | 0 |
| Coonab'rn | b | 76 | 45 | 0 |
| P.Macqrie | g | 68 | 48 | 0 |
| Murr'undi | b | 68 | 46 | 0 |
| Cassilis. | b | 71 | 46 | 0 |
| Mus'br'ok | b | 74 | 54 | 0 |
| Dubbo... | g | 72 | 54 | 0 |
| Mudgee.. | g | 75 | 45 | 0 |
| Maitland. | b | 72 | 51 | 0 |
| Hill End. | g | 62 | 40 | 0 |
| Newcastle | b | 70 | 51 | 0 |
| Orange.. | g | 63 | 34 | 0 |
| Bathurst. | c | 70 | 42 | 0 |
| Condob'lin | . | ... | ... | .. |
| MtVict'ria | b | 62 | 42 | 0 |
| Forbes... | c | 84 | 54 | 0 |
| SYDNEY.. | c | 64 | 54 | 0 |
| 1S 63 | | | | |
| Picton | o | 68 | 45 | 0 |
| Wentw'th | b | 83 | 46 | 0 |
| Young... | b | 68 | 51 | 0 |
| Wollgo'ng | c | 68 | 53 | 0 |
| Moss Vale | g | 63 | 44 | 0 |
| Euston... | . | ... | ... | .. |
| Goulburn | b | 70 | 45 | 0 |
| Wagga... | b | 73 | 54 | 0 |
| Cape Geo. | c | 64 | | 0 |
| Queanb'n | b | 73 | 47 | 0 |
| Deniliq'in | . | ... | ... | .. |
| Moruya.. | b | 64 | 51 | c |
| Kiandra.. | b | 59 | 17 | 0 |
| Albury.. | b | 72 | 50 | 0 |
| Bodalla.. | b | 68 | 48 | 0 |
| Cooma... | g | 69 | 43 | 0 |
| Eden.... | c | 62 | 51 | 0 |
| Gabo Isl'd | c | 61 | 55 | 0 |




WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

MI's WIND SCALE.
13-Lit brze
23-Mod. ,,
34-Fresh ,,
c-Strg gale
S-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

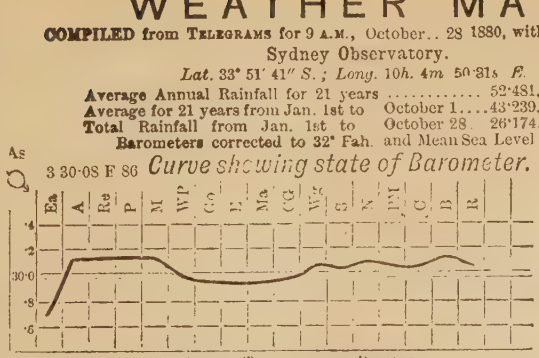
**COMPILED** from **TELEGRAMS** for 9 A.M., October.. 28 1880, with **NOTES** to 3 P.M

Sydney Observatory.

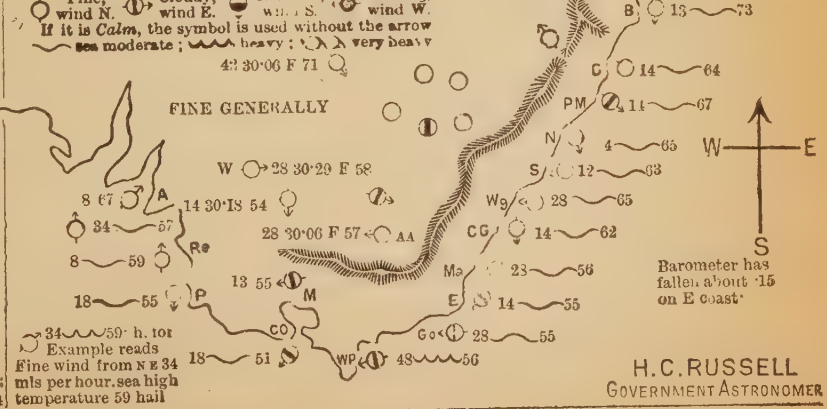
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to October 1**.... 43·239.
**Total Rainfall from Jan. 1st to October 28**.. 26·174.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | o | 81 | 52 | 0 |
| Tenterfild | b | 75 | 40 | 0 |
| Moree.... | b | 75 | 64 | 0 |
| Grafton.. | b | 71 | 50 | 0 |
| Inverell.. | b | 74 | 54 | 0 |
| Bourke .. | b | 87 | 43 | 0 |
| Narrabri | b | 79 | 57 | 0 |
| Armidale | b | 68 | 37 | 0 |
| Bendem'r | g | 80 | 47 | 0 |
| Gunned'h | | .. | .. | .. |
| Coonab'rn | b | 75 | 43 | 0 |
| P.Macqrie | c | 71 | 57 | 0 |
| Murr'undi | b | 69 | 55 | 0 |
| Cassilis.. | b | 71 | 43 | 0 |
| Mus'br'ok | b | 82 | 41 | 0 |
| Dubbo... | b | 77 | 53 | 0·09 |
| Mudgee.. | b | 78 | 45 | 0·05 |
| Maitland. | b | 78 | 66 | 0 |
| Hill End. | b | 69 | 41 | 0·10 |
| Newcastle | b | 79 | 53 | 0 |
| Orange.. | b | 67 | 36 | 0·10 |
| Bathurst. | b | 68 | 37 | 0 |
| Condob'lin | b | 61 | 34 | 0 |
| MtVict'ria | b | 63 | 41 | 0 |
| Forbes... | b | 81 | 48 | 0 |
| SYDNEY. | b | 77 | 53 | 0 |
| Picton | b | 77 | 40 | 0 |
| Wentw'th | b | 76 | 42 | 0 |
| Young... | b | 75 | 43 | 0 |
| Wollgo'ng | b | 80 | 47 | 0 |
| Moss Vale | c | 69 | 42 | 0 |
| Euston... | b | 82 | 43 | 0 |
| Goulburn | b | 71 | 40 | 0 |
| Wagga... | b | 76 | 44 | 0 |
| Cape Geo. | b | 64 | .. | 0 |
| Queanb'n | b | 74 | 40 | 0 |
| Deniliq'in | b | 70 | 42 | 0 |
| Moruya.. | b | 77 | 44 | 0 |
| Kiandra.. | b | 65 | 25 | 0 |
| Albury.. | b | 78 | 44 | 0 |
| Bodalla. | e | .. | .. | .. |
| Cooma... | b | 70 | 33 | 0 |
| Eden.... | c | 65 | 48 | 0·06 |
| Gabo Isl'd | g | 62 | 52 | 0·04 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy




H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., October.. 29 1880, with NOTES to 3 P.M.

Sydney Observatory.

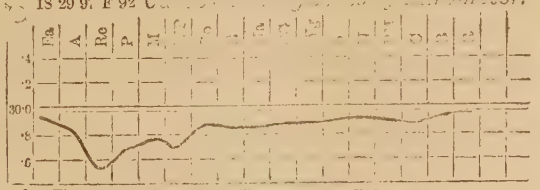
*Lat.* 33° 51′ 17″ S ; *Long.* 10h. 4m 50·31s *E.*

**Average Annual Rainfall** for 21 years ..... 52·481.
**Average** for 21 years ..... October 1 .... 43·239.
**Total** Rainfall from ..... October 29 26·174.
**Barometers** corrected to ... and Mean Sea Level

| Stations. | Wtd | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 86 | 56 | 0 |
| Tenterfild | b | 75 | 57 | 0 |
| Moree.... | b | 74 | 62 | 0 |
| Grafton.. | b | 84 | 56 | 0-09 |
| Inverell.. | b | 78 | 44 | 0 |
| Bourke .. | . | .. | .. | .. |
| Narrabri | b | 81 | 50 | 0 |
| Armidale | b | 61 | 37 | 0 |
| Bendem'r | b | 76 | 38 | 0 |
| Gunned'h | | .. | .. | .. |
| Coonab'rn | b | 78 | 36 | 0 |
| P.Macqrie | b | 72 | 56 | 0 |
| Murr'undi | b | 74 | 45 | 0 |
| Cassilis.. | b | 71 | 41 | 0 |
| Mus'br'ok | b | 82 | 44 | 0 |
| Dubbo... | b | 73 | 49 | 0 |
| Mudgee | b | 78 | 40 | 0 |
| Maitland. | b | 79 | 51 | 0 |
| Hill End. | b | 62 | 33 | 0 |
| Newcastle | b | 71 | 52 | 0 |
| Orange. | b | 63 | 39 | 0 |
| Bathurst. | b | 68 | 37 | 0 |
| Condob'ln | . | .. | .. | .. |
| MtVict'ria | b | 64 | 38 | 0 |
| Forbes... | b | 80 | 55 | 0 |
| SYDNEY. . | b | 71 | 51 | 0 |
| 0 70 | | L | | |
| Pictor | b | 74 | 40 | 0 |
| Wentw'th | q | 78 | 55 | 0 |
| Young... | b | 67 | 44 | 0 |
| Wollgo'ng | b | 71 | 35 | 0 |
| Moss Vale | b | 67 | 41 | 0 |
| Euston... | g | 83 | 54 | 0 |
| Goulburn | b | 69 | 38 | 0 |
| Wagga... | b | 74 | 44 | 0 |
| Cape Geo. | b | 67 | | 0 |
| Queanb'n | b | 74 | 42 | 0 |
| Deniliq'in | r | 73 | 45 | 0 |
| Moruya.. | b | 71 | 46 | 0 |
| Kiandra.. | b | 48 | 14 | 0 |
| Albury.. | b | 73 | 40 | 0 |
| Bodalla. | b | 74 | 40 | 0 |
| Cooma... | b | 67 | 34 | 0 |
| Eden.... | b | 69 | 50 | 0 |
| Gabo Isl'd | b | 61 | 50 | 0 |

As 18 29 97 F 92 Calm ... Barometer.

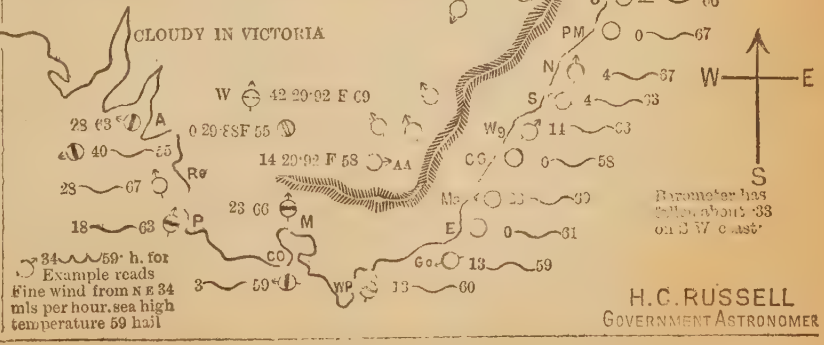
Fa A Re P M ... 30·0 ·8 ·6



Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy



**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Ml's WIND SCALE.
13-Lit brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 5m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

CLOUDY IN VICTORIA

W 42 29·92 F C9
0 29·88 F 55
14 29·92 F 58
28 63
40 55
28 67
18 63
23 66
3 59
34 59· h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

B 8 74
C 66
PM 0 67
N 4 67
S 4 63
W9 14 63
CG 0 58
Ma 23 60
E 0 61
Go 13 59
WP 13 60

W E S

Barometer has fallen about ·33 on S W coast.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

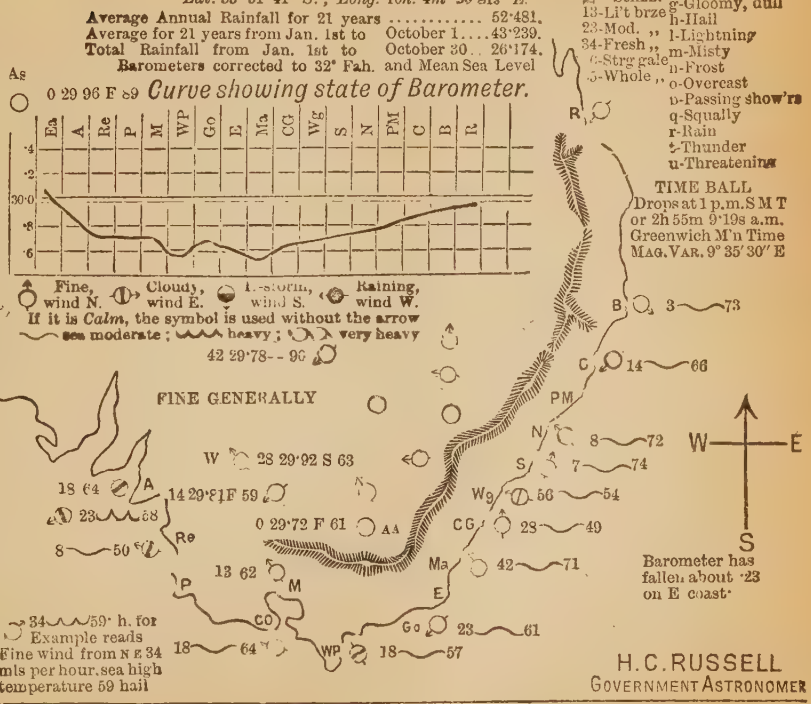
**COMPILED** from TELEGRAMS for 9 A.M., October.. 30 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E.*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to October 1....43·239.
**Total** Rainfall from Jan. 1st to October 30.. 26·174.
**Barometers** corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 87 | 55 | 0 |
| Tenterfild | b | 78 | 36 | 0 |
| Moree.... | b | 76 | 65 | 0 |
| Grafton.. | b | 86 | 55 | 0 |
| Inverell.. | b | 76 | 45 | 0 |
| Bourke .. | b | 91 | 61 | 0 |
| Narrabri | b | 84 | 54 | 0 |
| Armidale | b | 69 | 32 | 0 |
| Bendem'r | b | 80 | 42 | 0 |
| Gunned'h | | .. | .. | .. |
| Coonab'rn | b | 81 | 43 | 0 |
| P.Macqrie | | .. | .. | .. |
| Murr'undi | b | 75 | 56 | 0 |
| Cassilis.. | b | 80 | 46 | 0 |
| Mus'br'ok | b | 85 | 48 | 0 |
| Dubbo... | b | 77 | 52 | 0 |
| Mudgee.. | b | 63 | 46 | 0 |
| Maitland. | b | 79 | 57 | 0 |
| Hill End. | b | 68 | 47 | 0 |
| Newcastle | b | 75 | 52 | 0 |
| Orange.. | b | 68 | 32 | 0 |
| Bathurst. | b | 73 | 41 | 0 |
| Condob'ln | b | 60 | 55 | 0 |
| MtVict'ria | | .. | .. | .. |
| Forbes... | b | 82 | 49 | 0 |
| SYDNEY. . | b | 76 | 59 | 0 |
| S 66 | | E | | |
| Pictor | b | 76 | 57 | 0·02 |
| Wentw'th | b | 93 | 48 | 0 |
| Young... | b | 72 | 51 | 0 |
| Wollgo'ng | c | 82 | 55 | 0 |
| Moss Vale | b | 73 | 51 | 0 |
| Euston... | b | 97 | 37 | 0 |
| Goulburn | b | 74 | 42 | 0 |
| Wagga... | b | 77 | 49 | 0 |
| Cape Geo. | b | 70 | | 0 |
| Queanb'n | b | 75 | 43 | 0 |
| Deniliq'in | b | 78 | 48 | 0 |
| Moruya.. | b | 68 | 59 | 0 |
| Kiandra.. | b | 47 | 15 | 0 |
| Albury.. | b | 73 | 44 | 0·04 |
| Bodalla. | b | 74 | 44 | 0 |
| Cooma... | b | 73 | 39 | 0·80 |
| Eden.... | . | .. | .. | .. |
| Gabo Isl'd | b | 67 | 54 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., November 1 1880, with NOTES [illegible]

## Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·21*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to October 1....43·239.
Total Rainfall from Jan. 1st to November 1 26·174.
Barometers corrected to 32° Fah. and Mean Sea Level

8 30·18 R 71

*Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

30·0

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

28 30·08 R 77

FINE GENERALLY IN N.S. WALES

W 42 30·27 R 58

13 60 28 30·11 R 60

18 56

18 60

56 29·96 R 58

18 57

34 56

34 59 h. for

Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

| Stations. | Wh | Max. | Min. | Rain. |
|---|---|---|---|---|
| Casino.. | b | 97·54 | | 0·20 |
| Tenterfild | b | 86·54 | | 0 |
| Moree.... | b | 86·58 | | 0 |
| Grafton.. | b | 92·59 | | 0 |
| Inverell.. | b | 84·42 | | 0 |
| Bourke .. | b | 86..5 | | 0 |
| Narrabri | b | 88·54 | | 0 |
| Armidale | b | 80·37 | | 0 |
| Bendem'r | b | 83·37 | | 0 |
| Gunned'h | b | 95·59 | | 0 |
| Coonab'rn | b | 81·40 | | 0 |
| P.Macqrie | b | 81·55 | | 0 |
| Murr'undi | b | 86·48 | | 0 |
| Cassilis.. | b | 75·42 | | 0 |
| Mus'br'ok | b | 88·45 | | 0 |
| Dubbo... | b | 83·50 | | 0 |
| Mudgee.. | b | 80·41 | | 0 |
| Maitland. | b | 90·53 | | 0 |
| Hill End. | b | 70·41 | | 0 |
| Newcastle | b | 89·52 | | 0 |
| Orange.. | b | 73·35 | | 0 |
| Bathurst. | b | 79·38 | | 0 |
| Condob'ln | b | 63·54 | | 0 |
| Mt Vict'ria | b | 64·40 | | 0 |
| Forbes... | b | 79·51 | | 0 |
| SYDNEY. . | b | 79·56 | | 0 |
| 13 62 | | E | | |
| Victor | b | 75·45 | | 0 |
| Wentw'th | g | 71·50 | | 0 |
| Young... | b | 69..5 | | 0 |
| Wollgo'ng | b | 72·50 | | 0 |
| Moss Vale | b | 63·36 | | 0 |
| Euston,.. | o | 85·31 | | 0 |
| Goulburn | . | ... | ... | .. |
| Wagga... | g | 83·46 | | 0 |
| Cape Geo. | b | 68·. | | 0 |
| Queanb'n | b | 81·48 | | 0 |
| Deniliq'in | b | 79·44 | | 0 |
| Moruya.. | b | 72·51 | | 0 |
| Kiandra.. | . | ... | ... | .. |
| Albury.. | g | 81·47 | | 0 |
| Bodalla.. | . | .. | .. | .. |
| Cooma.... | b | 59·41 | | 0 |
| Eden.... | c | 67·47 | | 0·01 |
| Gabo Isl'd | g | 64·54 | | 0 |

WEATHER.
o-Blue sky
e-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
z-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich Mean Time
MAG. VAR. 9 30° E

Barometer has risen 0·350 at

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

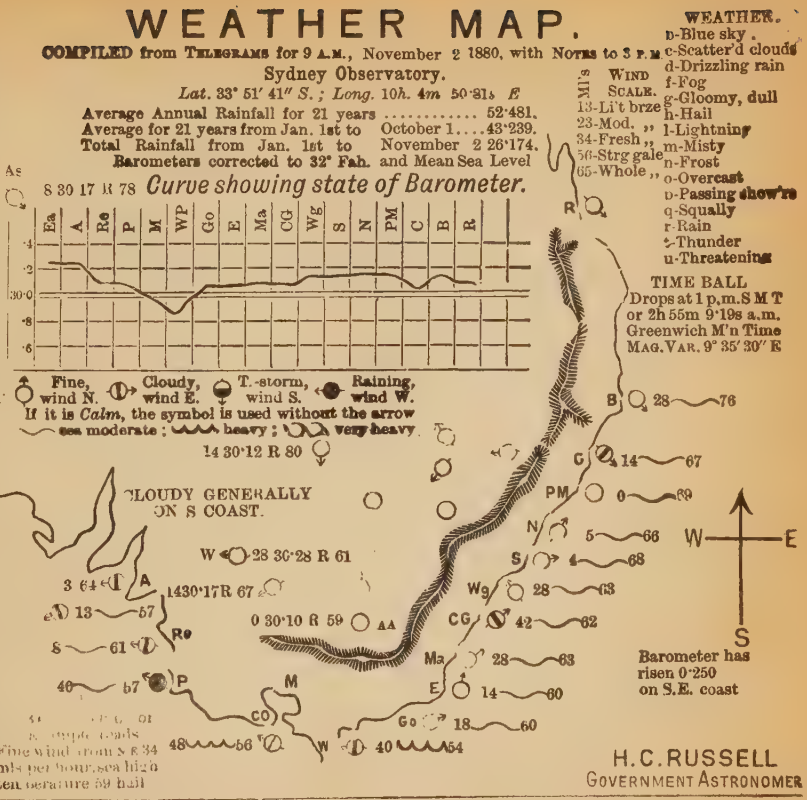
**COMPILED** from **TELEGRAMS** for 9 A.M., November 2 1880, with **NOTES** to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** October 1....43·239.
**Total Rainfall from Jan. 1st to** November 2 26·174.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 83 | 52 | 0 |
| Tenterfild | b | 75 | 53 | 0 |
| Moree.... | b | 75 | 64 | 0 |
| Grafton.. | b | 85 | 59 | 0 |
| Inverell.. | b | 76 | 44 | 0 |
| Bourke .. | b | 85 | 55 | 0 |
| Narrabri | b | 86 | 58 | 0 |
| Armidale | b | 80 | 40 | 0 |
| Bendem'r | b | 75 | 41 | 0 |
| Gunned'h | b | .. | .. | .. |
| Coonab'rn | b | 77 | 41 | 0 |
| P.Macqrie | b | 73 | 58 | 0 |
| Murr'undi | b | 75 | 50 | 0 |
| Cassilis.. | b | 71 | 42 | 0 |
| Mus'br'ok | b | 84 | 37 | 0 |
| Dubbo... | b | 73 | 52 | 0 |
| Mudgee.. | b | 79 | 44 | 0 |
| Maitland. | b | 81 | 56 | 0 |
| Hill End. | b | 68 | 40 | 0 |
| Newcastle | b | 80 | 54 | 0·03 |
| Orange.. | b | 64 | 37 | 0 |
| Bathurst. | b | 67 | 39 | 0 |
| Condob'ln | b | 68 | 54 | 0 |
| MtVict'ria | b | 65 | 41 | 0 |
| Forbes... | b | 80 | 51 | 0 |
| SYDNEY. . | b | 77 | 58 | 0 |
| 13 66 | E | | | |
| Pictor | b | .. | .. | .. |
| Wentw'th | b | 75 | 46 | 0 |
| Young... | b | 68 | 45 | 0 |
| Wollgo'ng | b | 76 | 65 | 0 |
| Moss Vale | b | 65 | 42 | 0 |
| Euston... | b | 77 | 44 | 0 |
| Goulburn | b | 66 | 41 | 0 |
| Wagga... | b | 74 | 44 | 0 |
| Cape Geo. | c | 76 | | 0 |
| Queanb'n | b | 73 | 43 | 0 |
| Deniliq'in | b | 75 | 43 | 0 |
| Moruya.. | b | 78 | 54 | 0 |
| Kiandra.. | b | 53 | 23 | 0 |
| Albury.. | b | 75 | 39 | 0 |
| Bodalla. | b | 79 | 45 | 0 |
| Cooma... | n | 66 | 32 | 0 |
| Eden.... | b | 73 | 47 | 0 |
| Gabo Isl'd | b | 65 | 50 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., November 3 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to October 1**.....43·239.
**Total Rainfall from Jan. 1st to November 3** 26·175.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wtl. | Max. | Min. | Rain. |
|---|---|---|---|---|
| Casino.. | b | 82 | 51 | 0 |
| Tenterfild | b | 80 | 31 | 0 |
| Moree.... | b | 80 | 66 | 0 |
| Grafton.. | b | 92 | 59 | 0 |
| Inverell.. | b | 74 | 49 | 0 |
| Bourke .. | b | 90 | 59 | 0 |
| Narrabri | b | 85 | 53 | 0 |
| Armidale | b | 75 | 41 | 0 |
| Bendem'r | b | 83 | 43 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 90 | 46 | 0 |
| P.Macqrie | b | 75 | 53 | 0 |
| Murr'undi | b | 79 | 55 | 0 |
| Cassilis.. | b | 84 | 46 | 0 |
| Mus'br'ok | b | 88 | 50 | 0 |
| Dubbo... | b | 79 | 54 | 0 |
| Mudgee.. | b | 85 | 45 | 0 |
| Maitland. | b | 80 | .. | 0 |
| Hill End. | b | 70 | 43 | 0 |
| Newcastle | b | 74 | 57 | 0 |
| Orange.. | b | 69 | 38 | 0 |
| Bathurst. | b | 76 | 41 | 0 |
| Condob'lin | b | 70 | 55 | 0 |
| MtVict'ria | b | 74 | 51 | 0 |
| Forbes... | b | 89 | 58 | 0 |
| SYDNEY. . | b | 72 | 58 | 0 |
| 8 67 | E | | | |
| Picton | b | 83 | 46 | 0 |
| Wentw'th | c | 83 | 49 | 0 |
| Young... | b | 74 | 47 | 0 |
| Wollgo'ng | c | 74 | 54 | 0 |
| Moss Vale | b | 75 | 50 | 0 |
| Euston... | b | 85 | 50 | 0 |
| Goulburn | b | 75 | 50 | 0 |
| Wagga... | b | 82 | 48 | 0 |
| Cape Geo. | b | 67 | .. | 0 |
| Queanb'n | b | 78 | 45 | 0 |
| Deniliq'in | b | 80 | 48 | 0 |
| Moruya.. | b | 69 | 52 | 0 |
| Kiandra.. | b | 63 | 55 | 0 |
| Albury.. | b | 82 | 43 | 0 |
| Bodalla.. | . | .. | .. | .. |
| Cooma... | g | 78 | 43 | 0 |
| Eden.... | b | 65 | 50 | 0 |
| Gabo Isl'd | . | .. | .. | .. |

As 0 30 13 R 82 *Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

30·4 30·2 30·0 29·8 29·6

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

0 30·50 F 89

FINE GENERALLY IN N.S.WALES

W 28 30·26 F 6

28 62 A 14 30·07F 60

23 51 Re

42 29·96 F 62 AA

18 55 Ma

28 54 P M E 0 61

34 59 h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

CO Go

18 51 WP 28 54

R

B 34 75

C 14 68

PM 14 39

N 5 77

S 4 71

Wg 28 69

CG 14 65

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

M'ls WIND SCALE.
1-Lt brze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has fallen about 0·25 on E. coast

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

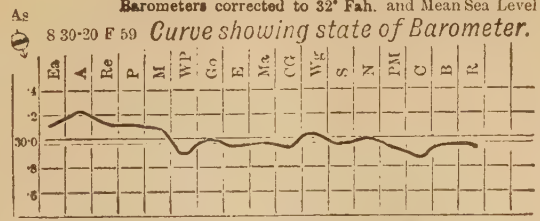
**COMPILED** from **TELEGRAMS** for 9 A.M., November 4 1880, with **NOTES** to 3 P.M.

Sydney Observatory.

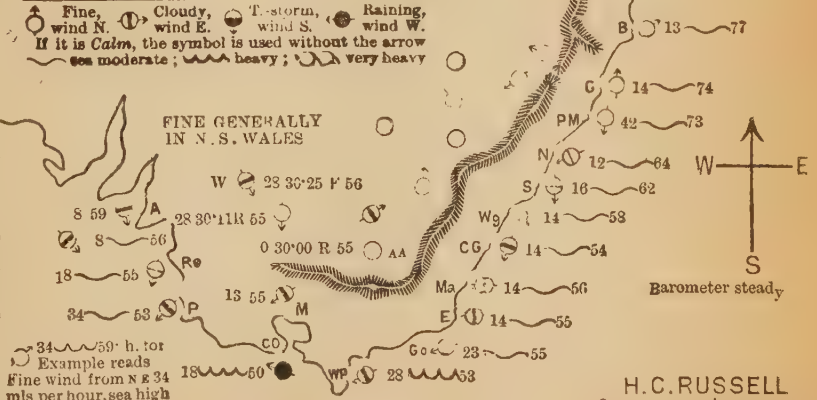
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** October 1.... 43·239.
**Total Rainfall from Jan. 1st to** November 4 26·175.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 93 | 65 | 0 |
| Tenterfild | b | 82 | 35 | 0 |
| Moree.... | b | 85 | 47 | 0 |
| Grafton.. | b | 90 | 59 | 0 |
| Inverell.. | b | 84 | 50 | 0 |
| Bourke .. | . | .. | .. | .. |
| Narrabri | b | 88 | 52 | 0 |
| Armidale | b | 76 | 46 | 0 |
| Bendem'r | b | 83 | 45 | 0 |
| Gunned'h | b | 96 | 44 | 0 |
| Coonab'rn | . | .. | | .. |
| P.Macqrie | b | 84 | 61 | 0 |
| Murr'undi | b | 81 | 54 | 0 |
| Cassilis.. | b | 80 | 41 | 0 |
| Mus'br'ok | b | 92 | 54 | 0 |
| Dubbo... | . | .. | .. | .. |
| Mudgee . | b | 87 | 51 | 0 |
| Maitland. | c | 89 | .. | 0 |
| Hill End. | b | 79 | 41 | 0 |
| Newcastle | c | 86 | 62 | 0 |
| Orange.. | b | 72 | 34 | 0 |
| Bathurst. | b | 76 | 42 | 0 |
| Condob'ln | . | . | .. | .. |
| MtVict'ria | b | 75 | 48 | 0 |
| Forbes... | b | 82 | 54 | 0 |
| SYDNEY. . | c | 80 | 58 | 0 |
| 13 65 | | E | | |
| Pictor | o | 86 | 55 | 0 |
| Wentw'th | c | 76 | 43 | 0 |
| Young... | b | 77 | 48 | 0 |
| Wollgo'ng | g | 78 | 54 | 0 |
| Moss Vale | g | 76 | 49 | 0 |
| Euston... | g | 79 | 44 | 0 |
| Goulburn | b | 77 | 48 | 0 |
| Wagga... | b | 83 | 47 | 0 |
| Cape Geo. | g | 71 | | 0·45 |
| Queanb'n | b | 80 | 52 | 0 |
| Deniliq in | b | 75 | 42 | 0 |
| Moruya.. | b | 69 | 41 | 0 |
| Kiandra.. | b | 54 | 21 | 0 |
| Albury . | b | 77 | 39 | 0 |
| Bodalla. | g | 70 | 43 | 0·03 |
| Cooma... | c | 75 | 43 | 0 |
| Eden.... | c | 70 | 51 | 0·04 |
| Gabo Isl'd | c | 61 | 50 | 0·02 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




34 59· h. for
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

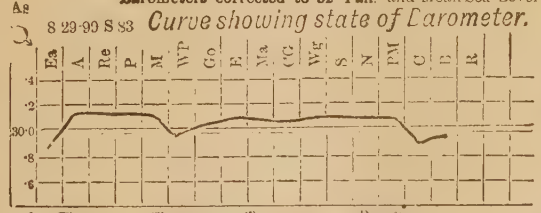
**COMPILED** from **TELEGRAMS** for 9 A.M., November 5 1880, with **NOTES** to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to October 1.... 43·239.
**Total** Rainfall from Jan. 1st to November 5 26·213.
**Barometers** corrected to 32° Fah. and Mean Sea Level

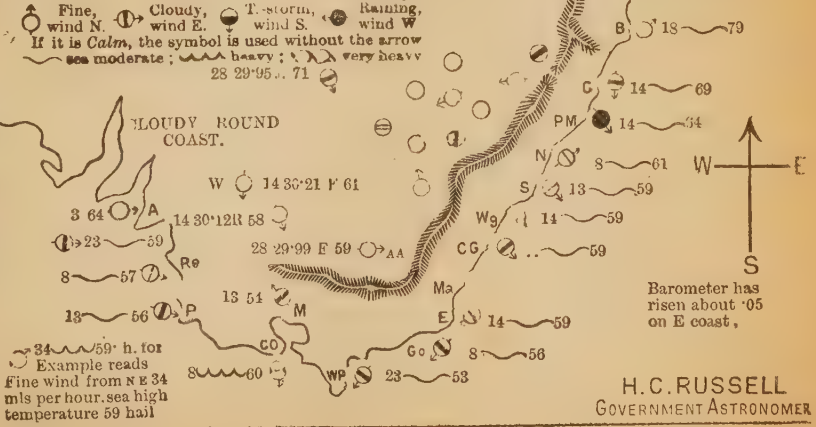
| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 94 | 62 | 0 |
| Tenterfild | b | 84 | 41 | 0 |
| Moree.... | b | 85 | 68 | 0 |
| Grafton.. | c | 89 | 67 | 0 |
| Inverell.. | b | 85 | 43 | 0 |
| Bourke .. | b | 92 | 57 | 0 |
| Narrabri | b | 90 | 67 | 0 |
| Armidale | b | 78 | 43 | 0 |
| Bendem'r | b | 83 | 44 | 0 |
| Gunned'h | b | 97 | 50 | 0 |
| Coonab'rn | b | 84 | 41 | 0 |
| P.Macqrie | p | 73 | 64 | 0·13 |
| Murr'undi | b | 80 | 60 | 0 |
| Cassilis.. | b | 84 | 55 | 0 |
| Mus'br'ok | b | 90 | 57 | 0 |
| Dubbo... | b | 83 | 54 | 0 |
| Mudgee . | g | 86 | 56 | 0 |
| Maitland. | p | 79 | .. | 0·11 |
| Hill End. | b | 71 | 44 | 0 |
| Newcastle | g | 71 | 50 | 0·03 |
| Orange.. | b | 69 | 44 | 0 |
| Bathurst. | b | 73 | 41 | 0 |
| Condob'ln | b | 67 | 56 | 0 |
| MtVict'ria | g | 75 | 46 | 0 |
| Forbes... | b | 85 | 53 | 0 |
| SYDNEY. . | g | 67 | 58 | 0·04 |
| 13 67 | | E | | |
| Pictor | g | 74 | 55 | 0·01 |
| Wentw'th | b | 71 | 43 | 0 |
| Young... | b | 71 | 46 | 0 |
| Wollgo'ng | g | 66 | 53 | 0 |
| Moss Vale | g | 61 | 48 | 0·05 |
| Euston... | b | 77 | 46 | 0 |
| Goulburn | b | 74 | 48 | 0 |
| Wagga... | b | 76 | 43 | 0 |
| Cape Geo. | c | 62 | . | 0·07 |
| Queanb'n | c | 77 | 51 | 0 |
| Deniliq'in | b | 71 | 43 | 0 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | b | 60 | 24 | 0 |
| Albury.. | b | 76 | 37 | 0 |
| Bodalla.. | . | . | . | . |
| Cooma... | c | 68 | 43 | 0 |
| Eden.... | c | 62 | 52 | 0 |
| Gabo Isl'd | c | 62 | 52 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy




34 59· h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

Barometer has risen about ·05 on E coast,

**WEATHER.**

b-Blue sky ,
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mil's WIND SCALE.
13-Lit brze
23 Mod. ,,
34-Fresh ,,
5-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

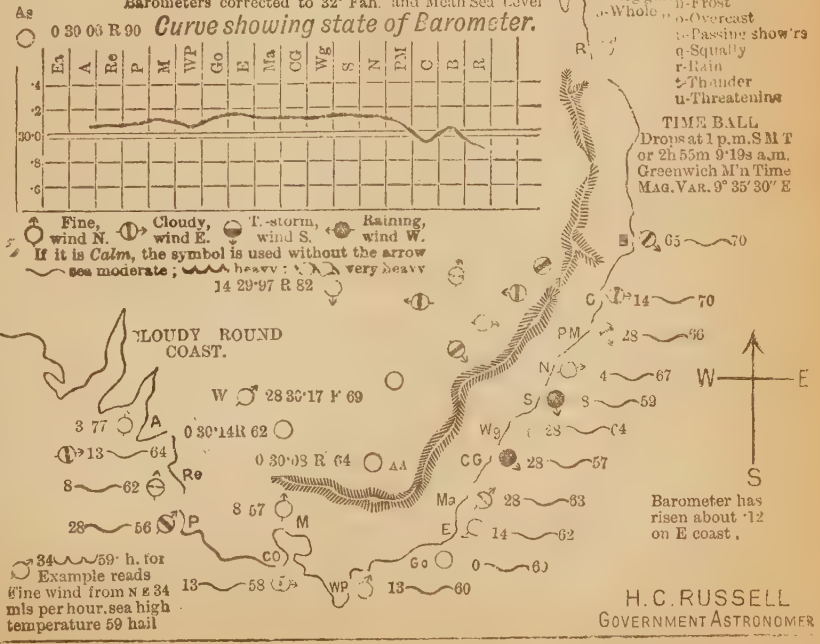
**COMPILED** from TELEGRAMS for 9 A.M., November 6 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to October 1**.... 43·239.
**Total Rainfall from Jan. 1st to November 6** 26·543.
**Barometers corrected to 32° Fah. and Mean Sea Level**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | g | 83 | 66 | 0 |
| Tenterfild | g | 85 | 46 | 0 |
| Moree.... | g | 82 | 72 | 0 |
| Grafton.. | g | 83 | 65 | 0 |
| Inverell.. | . | .. | .. | .. |
| Bourke .. | b | 89 | 63 | 0 |
| Narrabri | g | 88 | 59 | 0 |
| Armidale | g | 77 | 46 | 0 |
| Bendem'r | b | 82 | 51 | 0 |
| Gunned'h | g | 96 | 52 | 0 |
| Coonab'rn | g | 85 | 46 | 0 |
| P.Macqrie | g | 70 | 62 | 0·65 |
| Murr'undi | c | 76 | 59 | 0 |
| Cassilis.. | g | 83 | 62 | 0 |
| Mus'br'ok | o | 81 | 56 | 0 |
| Dubbo... | b | 80 | 58 | 0 |
| Mudgee.. | g | 85 | 56 | 0 |
| Maitland. | g | 75 | . | 0 |
| Hill End. | b | 71 | 46 | 0 |
| Newcastle | b | 69 | 61 | 0 |
| Orange.. | . | . | .. | .. |
| Bathurst. | . | .. | .. | .. |
| Condob'ln | . | .. | .. | .. |
| MtVict'ria | . | .. | .. | .. |
| Forbes... | h | 83 | 57 | 0 |
| SYDNEY... | d | 67 | 58 | 0·33 |
| | | L | | |
| Pictor | o | 65 | 55 | 0·10 |
| Wentw'th | b | 78 | 57 | 0 |
| Young... | b | 73 | 53 | 0 |
| Wollgo'ng | c | 63 | 55 | 0·02 |
| Moss Vale | g | 55 | 49 | 0 |
| Euston... | b | 82 | 55 | 0 |
| Goulburn | g | 56 | 50 | 0 |
| Wagga... | . | .. | .. | .. |
| Cape Geo. | p | 62 | .. | 0·18 |
| Queanb'n | b | 78 | 53 | 0 |
| Deniliq'in | b | 75 | 42 | 0 |
| Moruya.. | b | 63 | 56 | 0·27 |
| Kiandra.. | b | 68 | 25 | 0 |
| Albury . | b | 79 | 42 | 0 |
| Bodalla.. | . | . | . | . |
| Cooma... | . | .. | .. | .. |
| Eden.... | b | 66 | 47 | 0 |
| Gabo Isl'd | b | 60 | 49 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

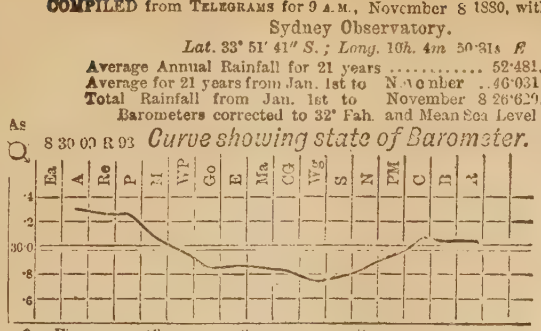
**COMPILED** from TELEGRAMS for 9 A.M., November 8 1880, with NOTES to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to November ..46·031
**Total** Rainfall from Jan. 1st to November 8 26·629.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 79 | 51 | 0 |
| Tenterfild | b | 76 | 37 | 0 |
| Moree.... | b | 82 | 73 | 0 |
| Grafton.. | b | 72 | 55 | 0 |
| Inverell.. | b | 83 | 54 | 0 |
| Bourke .. | b | 95 | 67 | 0 |
| Narrabri | b | 88 | 69 | 0 |
| Armidale | b | 74 | 46 | 0 |
| Bendem'r | b | 83 | 50 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | p | 90 | 53 | 0·04 |
| P.Macqrie | . | .. | .. | .. |
| Murr'undi | b | 81 | 60 | 0 |
| Cassilis.. | r | 92 | 58 | 0 |
| Mus'br'ok | g | 95 | 55 | 0 |
| Dubbo... | c | 84 | 62 | 0 |
| Mudgee .. | g | 89 | 53 | 0 |
| Maitland. | g | 87 | .. | 0 |
| Hill End. | g | 75 | 42 | 0 |
| Newcastle | g | 73 | 60 | 0 |
| Orange.. | . | .. | .. | .. |
| Bathurst. | g | 81 | 42 | 0 |
| Condob'lin | . | .. | .. | .. |
| Mt Vic'ria | c | 73 | 54 | 0 |
| Forbes.. | . | .. | .. | .. |
| SYDNEY... | c | 69 | 61 | 0·08 |
| | E | | | |
| Picton | c | 78 | 56 | 0 |
| Wentw'th | b | 95 | 47 | 0 |
| Young... | . | .. | .. | .. |
| Wollgo'ng | c | 72 | 61 | 0 |
| Moss Vale | g | 75 | 58 | 0·02 |
| Euston... | b | 99 | 10 | 0 |
| Goulburn | r | 84 | 51 | 0·23 |
| Wagga... | g | 89 | 56 | 0·05 |
| Cape Geo. | g | 64 | .. | 0·09 |
| Queanb'n | r | 85 | 50 | 0·23 |
| Deniliq'in | c | 90 | 45 | 0 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | . | .. | .. | .. |
| Albury . | g | 88 | 47 | 0·03 |
| Bodalla. | . | .. | .. | .. |
| Cooma... | c | 82 | 49 | 0·20 |
| Eden.... | g | 70 | 56 | 0·06 |
| Gabo Isl'd | g | 71 | 55 | 3·02 |




Fine, wind N. Cloudy, wind E. Thunder, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy : very heavy
42 29·98 R 86

**WIND SCALE.**
0-Calm
13-Li't brze
23-Mod. ,,
34-Fresh ,,
76-Strg gale
5-Whole ,,

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer has fallen about ·30 on E coast.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., November 9 1880, with Noons to 3 P.M.**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·91*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to November ..46·031
Total Rainfall from Jan. 1st to November 9 27·852.
Barometers corrected to 32° Fah. and Mean Sea Level

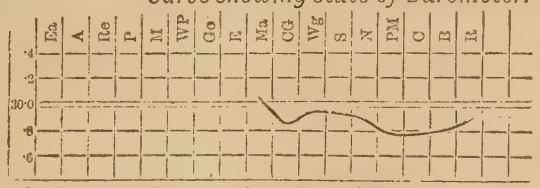
*Curve showing state of Barometer.*

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | p | 87 | 48 | 0·89 |
| Tenterfild | b | 79 | 38 | 0·88 |
| Moree.... | b | 81 | 60 | 0·13 |
| Grafton.. | b | 9[illegible] | 58 | 1·37 |
| Inverell.. | b | 80 | 48 | 0·32 |
| Bourke .. | b | 92 | 59 | 0 |
| Narrabri | b | 85 | 56 | 0·29 |
| Armidale | b | 77 | 44 | 0 |
| Bendem'r | b | 80 | 42 | 0·46 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | g | 74 | 37 | 0 |
| P.Macqrie | b | 74 | 53 | 1·41 |
| Murr'undi | g | 71 | 51 | 0·50 |
| Cassilis.. | g | 74 | 47 | 0 |
| Mus'br'ok | r | 82 | 50 | 0·83 |
| Dubbo... | c | 8[illegible] | 57 | 0 |
| Mudgee . | c | 75 | 33 | 0·12 |
| Maitland. | c | 78 | .. | 0·90 |
| Hill End. | c | 69 | 38 | 0 |
| Newcastle | c | 79 | 54 | 0·79 |
| Orange.. | c | 63 | 33 | 0·16 |
| Bathurst. | c | 63 | 46 | 0·23 |
| Condob'ln | c | 66 | 59 | 0 |
| MtVict'ria | r | 71 | 42 | 0·37 |
| Forbes... | c | 72 | 48 | 0 |
| SYDNEY. . | r | 65 | 54 | 1·23 |
| | | E | | |
| Pictor | . | .. | . | .. |
| Wentw'th | b | 76 | 54 | 0 |
| Young... | g | 70 | 53 | 0·45 |
| Wollgo'ng | p | 69 | 51 | 0·46 |
| Moss Vale | r | 64 | 47 | 1·81 |
| Euston... | b | 85 | 52 | 0 |
| Goulburn | r | 70 | 46 | 2·16 |
| Wagga... | g | 66 | 55 | 0·05 |
| Cape Geo. | r | 62 | | 0·51 |
| Queanb'n | p | 68 | 51 | 1·43 |
| Deniliq'in | b | 64 | 48 | 0 |
| Moruya.. | r | 66 | 45 | 0·75 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | b | 73 | 48 | 1·18 |
| Bodalla. | . | . | . | . |
| Cooma... | p | 57 | 45 | 0·24 |
| Eden.... | . | .. | .. | .. |
| Gabo Isl'd | . | .. | . | .. |

As

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

·4 ·2 30·0 ·8 ·6



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

42 29·96 F 75

CLOUDY GENERALLY

W 28 30·32 S 62

A 14 30·17 R 63

56 30·15 R 67 AA

Re

P M CO WP Go E Ma CG Wg S N PM C B R

34 h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

Mls WIND SCALE.
13-Li't brze
25-Mod. ,,
34-Fresh ,,
76-Strg gale
55-Whole ,,

WEATHER.
b-Blue sky.
c-Scattered clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

B 8 73
C 14 63
PM 56 63
N 15 60
S 20 60
Wg 28 61
CG 23 61
Ma 65 59

W E S

Barometer has risen about ·14 on E coast near Sydney.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

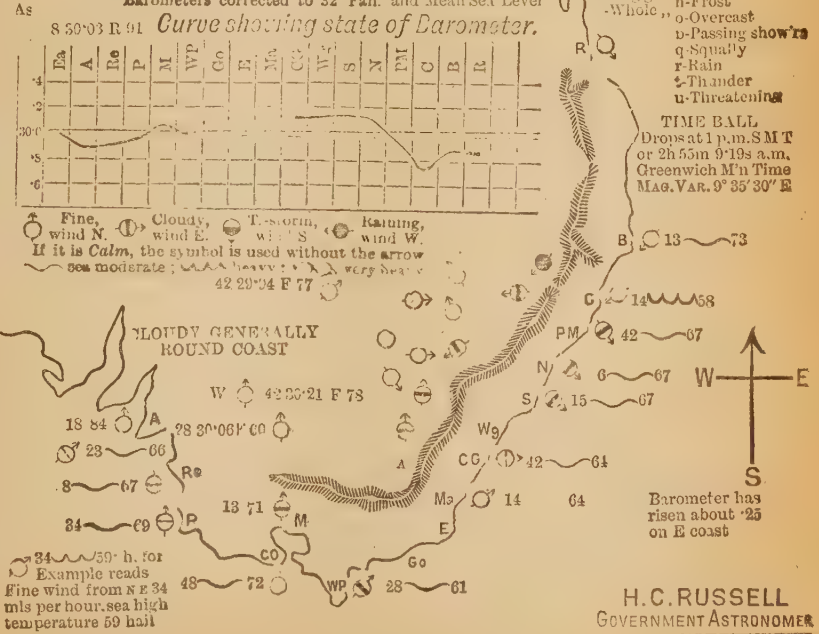
**COMPILED** from TELEGRAMS for 9 A.M., November 10 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to November** ..46·031
**Total Rainfall from Jan. 1st to November 10** 28·350.
**Barometers corrected to 32° Fah. and Mean Sea Level**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | p | 87 | 52 | 0·35 |
| Tenterfild | g | 66 | 34 | 0 |
| Moree.... | b | 72 | 61 | 0 |
| Grafton.. | g | 72 | 57 | 0·15 |
| Inverell.. | b | 85 | 47 | 0 |
| Bourke .. | b | 85 | 58 | 0 |
| Narrabri | b | 74 | 56 | 0 |
| Armidale | g | 79 | 46 | 0·17 |
| Bendem'r | g | 68 | 46 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 71 | 53 | 0·02 |
| P.Macqrie | g | 69 | 57 | 0·44 |
| Murr'undi | g | 64 | 55 | 0·75 |
| Cassilis.. | g | 71 | 51 | 0 |
| Mus'br'ok | g | 73 | 54 | 0·48 |
| Dubbo... | c | 76 | 59 | 0 |
| Mudgee.. | g | 76 | 47 | 0 |
| Maitland. | c | 71 | . | 1·95 |
| Hill End. | g | 69 | 44 | 0 |
| Newcastle | c | 73 | 47 | 1·12 |
| Orange.. | g | 64 | 34 | 0 |
| Bathurst. | b | 65 | 53 | 0·02 |
| Condob'ln | b | 62 | 56 | 0 |
| MtVict'ria | g | 52 | 42 | 2·06 |
| Forbes... | b | 72 | 49 | 0 |
| SYDNEY. . | c | 68 | 60 | 0·50 |
| 13 67 | | E | | |
| Picton | r | 68 | 58 | 0·61 |
| Wentw'th | b | 74 | 65 | 0 |
| Young... | b | 70 | 55 | 0·05 |
| Wollgo'ng | . | .. | .. | .. |
| Moss Vale | g | 60 | 52 | 1·14 |
| Euston... | g | 99 | 63 | 0 |
| Goulburn | g | 62 | 51 | 0·18 |
| Wagga... | b | 80 | 52 | 0 |
| Cape Geo. | c | 63 | . | 0·09 |
| Queanb'n | c | 69 | 53 | 0·13 |
| Deniliq'in | b | 70 | 63 | 0 |
| Moruya.. | b | 68 | 53 | 0·07 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | . | . | . | .. |
| Bodalla. | . | .. | .. | .. |
| Cooma... | c | 62 | 42 | 0 |
| Eden.... | . | .. | .. | .. |
| Gabo Isl'd | . | .. | .. | .. |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., November 11 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·91*s E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to November ..** 46·031
**Total Rainfall from Jan. 1st to November 11** 28·374.
**Barometers corrected to 32° Fah and Mean Sea Level**

*Curve showing state of Barometer.*

| Stations. | Wtr. | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | p | 77 | 60 | 0·33 |
| Tenterfild | g | 61 | 46 | 0·10 |
| Moree.... | b | 79 | 67 | 0 |
| Grafton.. | g | 70 | 58 | 0·38 |
| Inverell.. | b | 82 | 47 | 0 |
| Bourke .. | b | 88 | 53 | 0 |
| Narrabri | b | 81 | 61 | 0 |
| Armidale | g | 76 | 45 | 0 |
| Bendem'r | b | 72 | 44 | 0 |
| Gunned'h | b | 86 | 49 | 0 |
| Coonab'rn | c | 78 | 43 | 0 |
| P.Macqrie | g | 71 | 61 | 0·38 |
| Murr'undi | b | 70 | 56 | 0·06 |
| Cassilis.. | b | 74 | 58 | 0 |
| Mus'br'ok | b | 77 | 55 | 0 |
| Dubbo... | b | 80 | 61 | 0 |
| Mudgee.. | b | 78 | 53 | 0 |
| Maitland. | b | 74 | .. | 0 |
| Hill End.. | b | 67 | 43 | 0 |
| Newcastle | b | 72 | 60 | 0 |
| Orange.. | b | 70 | 32 | 0 |
| Bathurst. | b | 68 | 44 | 0 |
| Condob'ln | b | 75 | 61 | 0 |
| MtVict'ria | b | 64 | 43 | 0·13 |
| Forbes... | b | 84 | 55 | 0 |
| SYDNEY.. | c | 71 | 60 | 0·02 |
| 8 64 | | L | | |
| Picton | b | 73 | 58 | 0·06 |
| Wentw'th | b | 96 | 58 | 0 |
| Young... | b | 74 | 54 | 0 |
| Wollgo'ng | c | 73 | 58 | 0 |
| Moss Vale | b | 64 | 53 | 0·05 |
| Euston... | b | 97 | 61 | 0 |
| Goulburn | b | 70 | 45 | 0 |
| Wagga... | b | 88 | 61 | 0 |
| Cape Geo. | b | 72 | .. | 0 |
| Queanb'n | b | 75 | 55 | 0 |
| Deniliq'in | b | 83 | 56 | 0 |
| Moruya.. | b | 70 | 58 | 0 |
| Kiandra.. | · | .. | .. | .. |
| Albury.. | c | 89 | 58 | 0 |
| Bodalla.. | b | 75 | 50 | 0 |
| Cooma... | b | 71 | 49 | 0 |
| Eden.... | b | 68 | 57 | 0 |
| Gabo Is'd | c | 65 | 59 | 0 |

Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

**WIND SCALE.** M'ls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″

CLOUDY GENERALLY ROUND COAST

Barometer has fallen about ·33 on S E coast

Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

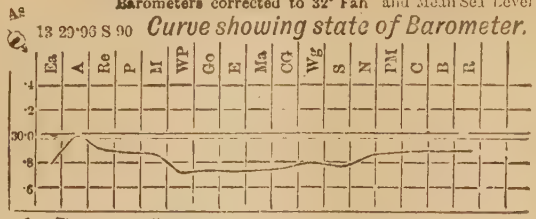
**COMPILED** from TELEGRAMS for 9 A.M., November 12 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** November . 46·031
**Total Rainfall from Jan. 1st to** November 12 28 374.
**Barometers corrected to 32° Fah** and Mean Sea Level

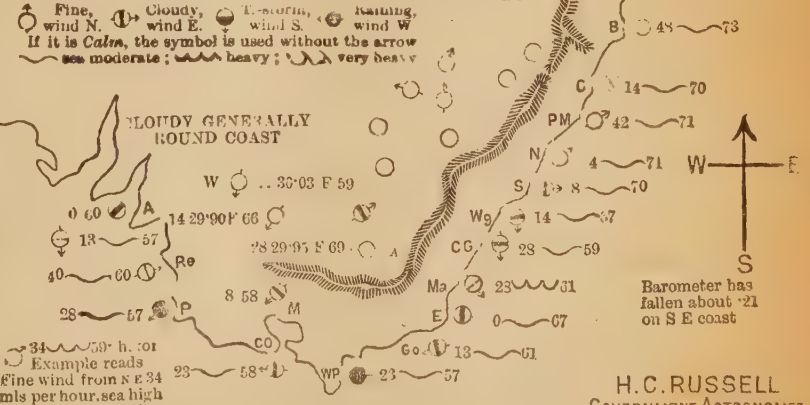
| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 80 | 61 | 0·24 |
| Tenterfild | b | 72 | 47 | 0 |
| Moree.... | b | 82 | 72 | 0 |
| Grafton.. | b | 73 | 68 | 0·16 |
| Inverell.. | b | 85 | 55 | 0 |
| Bourke .. | · | .. | .. | .. |
| Narrabri | b | 86 | 66 | 0 |
| Armidale | b | 72 | 44 | 0 |
| Bendem'r | b | 81 | 51 | 0 |
| Gunned'h | b | 95 | 51 | 0 |
| Coonab'rn | b | 89 | 53 | 0 |
| P.Macqrie | b | 74 | 63 | 0 |
| Murr'undi | b | 79 | 61 | 0 |
| Cassilis.. | b | 92 | 62 | 0 |
| Mus'br'ok | b | 86 | 60 | 0 |
| Dubbo... | b | 86 | 65 | 0 |
| Mudgee.. | b | 83 | 57 | 0 |
| Maitland. | b | 82 | .. | 0 |
| Hill End. | b | 75 | 52 | 0·03 |
| Newcastle | b | 75 | 66 | 0 |
| Orange.. | b | 74 | 37 | 0·04 |
| Bathurst. | b | 82 | 54 | 0·06 |
| Condob'ln | b | 75 | 66 | 0 |
| MtVict'ria | c | 72 | 55 | 0·07 |
| Forbes... | b | 98 | 63 | 0 |
| SYDNEY. . | c | 72 | 63 | 0 |
| 8 72 | | E | | |
| Pictor | g | 86 | 58 | 0 |
| Wentw'th | b | 84 | 51 | 0 |
| Young... | b | 86 | 59 | 0 |
| Wollgo'ng | c | 74 | 61 | 0 |
| Moss Vale | b | 78 | 58 | 0 |
| Euston... | b | 86 | .. | 0 |
| Goulburn | c | 83 | 53 | 0·11 |
| Wagga... | b | 92 | 59 | 0·22 |
| Cape Geo. | b | 70 | . | 0 |
| Queanb'n | b | 83 | 57 | 0 |
| Deniliq'in | b | 90 | 55 | 0 |
| Moruya.. | g | 69 | 53 | 0 |
| Kiandra.. | c | 69 | 24 | 0 |
| Albury.. | b | 93 | 54 | 0 |
| Bodalla. | o | 79 | 57 | 0·07 |
| Cooma... | c | 84 | 50 | 0·04 |
| Eden.... | b | 71 | 55 | 0 |
| Gabo Isl'd | g | 69 | 57 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy




Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

Barometer has fallen about ·21 on S E coast

**WEATHER.**
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mls WIND SCALE.
13-Lit'brze
23-Mod. ,,
34-Fresh ,,
-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., November 13, 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·2*s* *E*

**Average** Annual Rainfall for 21 years ............ 52·481.
**Average for 21 years from Jan. 1st to** November .. 46·031
**Total** Rainfall from Jan. 1st to November 13 28·394.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino | b | 90 | 62 | 0 |
| Tenterfld. | b | 85 | 52 | 0 |
| Moree | b | 86 | 75 | 0 |
| Grafton | b | 76 | 57 | 0·07 |
| Inverell | b | 85 | 56 | 0 |
| Bourke | b | 104 | 67 | 0 |
| Narrabri | b | 93 | 78 | 0 |
| Armidale | b | 80 | 49 | 0 |
| Bendem'r | b | 88 | 58 | 0·11 |
| Gunned'h | . | .. | .. | ... |
| Coonab'rn | b | 94 | 57 | 0 |
| Pt Macqrie | b | 76 | 67 | 0·10 |
| Murr'undi | b | 85 | 64 | 0 |
| Cassilis | b | 93 | 52 | 0 |
| Mus'br'ok | b | 96 | 61 | 0·15 |
| Dubbo | b | 91 | 63 | 0 |
| Mudgee | b | 92 | 45 | 0 |
| Maitland | b | 93 | 67 | 0·03 |
| Hill End | b | 81 | 55 | 0 |
| Newcastle | c | 77 | 63 | 0·19 |
| Orange | b | 81 | 35 | 0 |
| Bathurst | b | 84 | 51 | 0 |
| Condob'ln | . | | .. | .. |
| Mt Vict'ria | c | 81 | 51 | 0 |
| Forbes | b | 98 | 58 | 0 |
| SYDNEY | d | 76 | 62 | 0·02 |
| [illegible] 8 65 | | [illegible] | | |
| Picton | g | 87 | 60 | 0 |
| Wentw'th | c | 83 | 57 | 0 |
| Young | b | 92 | 55 | 0 |
| Wollgo'ng | [illegible] | 71 | [illegible] | 0·07 |
| Moss Vale | g | 81 | 55 | 0 |
| Euston | b | [illegible] | 53 | [illegible] |
| Goulburn | g | 83 | 54 | 0 |
| Wagga | g | 87 | 50 | 0 |
| Cape Geo. | g | 65 | | 0 |
| Queanb'n | c | 8[illegible] | 57 | 0 |
| Deniliq'in | b | 80 | 5[illegible] | 0 |
| Moruya | | .. | .. | .. |
| Kiandra | b | 65 | [illegible] | 0 |
| Albury | g | 87 | 4[illegible] | 0 |
| Bodalla | . | . | .. | .. |
| Cooma | g | 8[illegible] | 4[illegible] | 0 |
| Eden | c | 67 | 57 | 0 |
| Gabo Isl'd | g | 64 | 56 | 0 |

*Curve showing state of Barometer.*

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

**WEATHER.**
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
t-Thunder
u-Threatening

Mls WIND SCALE.
13-Lit brze
23-Mod. „
34-Fresh „
[illegible]-Strg gale
[illegible]-Whole „

**TIME BALL**
**Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time.**
**MAG. VAR. 9° 35′ 30″**

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

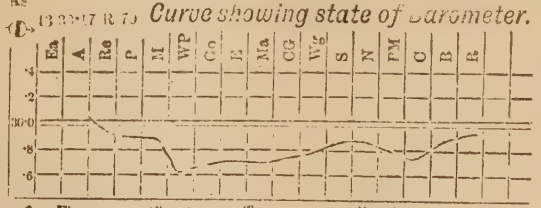
**COMPILED** from TELEGRAMS for 9 A.M., November 15 1880, with NOTES to 3 P.M.

Sydney Observatory.

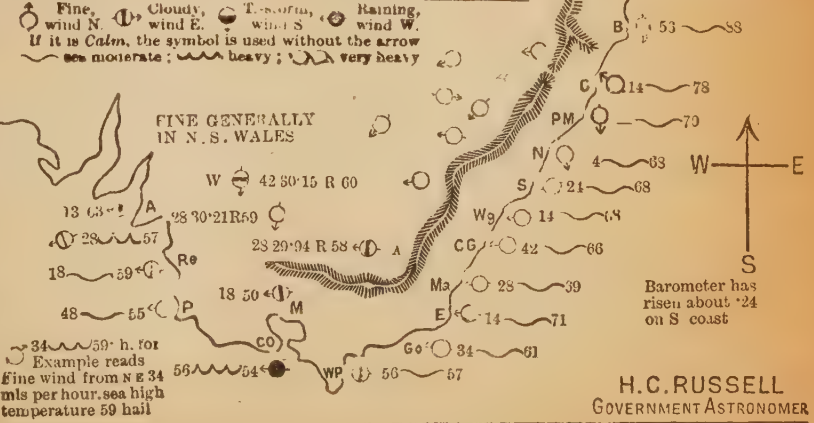
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to November . 46·031
Total Rainfall from Jan. 1st to November 15 28·411.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 97 | 69 | 0 |
| Tenterfild | b | 81 | 38 | 0 |
| Morce.... | b | 91 | 76 | 0 |
| Grafton.. | b | 91 | 72 | 0 |
| Inverell.. | b | 91 | 63 | 0 |
| Bourke .. | | .. | .. | . |
| Narrabri | b | 94 | 65 | 0 |
| Armidale | b | 81 | 47 | 0·73 |
| Bendem'r | b | 88 | 55 | 0 |
| Gunned'h | b | 101 | 57 | 0 |
| Coonab'rn | b | 88 | 55 | 0·09 |
| P.Macqrie | b | 78 | 63 | 0 |
| Murr'undi | b | 87 | 65 | 0·30 |
| Cassilis. | b | 95 | 56 | 0·75 |
| Mus'br'ok | b | 96 | 60 | 0·07 |
| Dubbo... | b | 94 | 63 | 0 |
| Mudgee . | b | 94 | 58 | 0 |
| Maitland. | b | 93 | 66 | 0 |
| Hill End. | . | .. | .. | .. |
| Newcastle | b | 94 | 65 | 0 |
| Orange. | b | 83 | 32 | 0 |
| Bathurst. | b | 88 | 51 | 0·05 |
| Condob'ln | b | 85 | 64 | 0 |
| MtVict'ria | b | 83 | 48 | 0 |
| Forbes... | b | 101 | 55 | 0 |
| SYDNEY. . | b | 95 | 62 | 0·02 |
| | | E | | |
| Pictor | b | 93 | 62 | 0 |
| Wentw'th | b | 75 | 46 | 0 |
| Young... | b | 88 | 53 | 0 |
| Wollgo'ng | b | 94 | 55 | 0 |
| Moss Vale | b | 83 | 50 | 0 |
| Euston... | b | 85 | 43 | 0 |
| Goulburn | b | 85 | 47 | 0 |
| Wagga... | c | 89 | 57 | 0 |
| Cape Geo. | c | 78 | | 0 |
| Queanb'n | b | 88 | 48 | 0 |
| Deniliq'in | b | 86 | 45 | 0·05 |
| Moruya.. | b | 89 | 53 | 0 |
| Kiandra.. | b | 40 | 19 | 0 |
| Albury.. | b | 87 | 47 | 0·06 |
| Bodalla. | b | 82 | 41 | 0 |
| Cooma... | b | 94 | 51 | 0 |
| Eden.... | b | 82 | 55 | 0 |
| Gabo Isl'd | c | 73 | 50 | 0·08 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

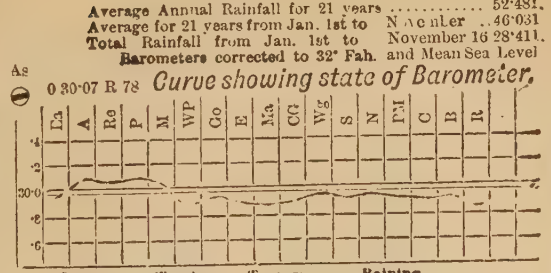
**COMPILED** from TELEGRAMS for 9 A.M., November 16 1880, with NOTES to 3 P.M.

Sydney Observatory.

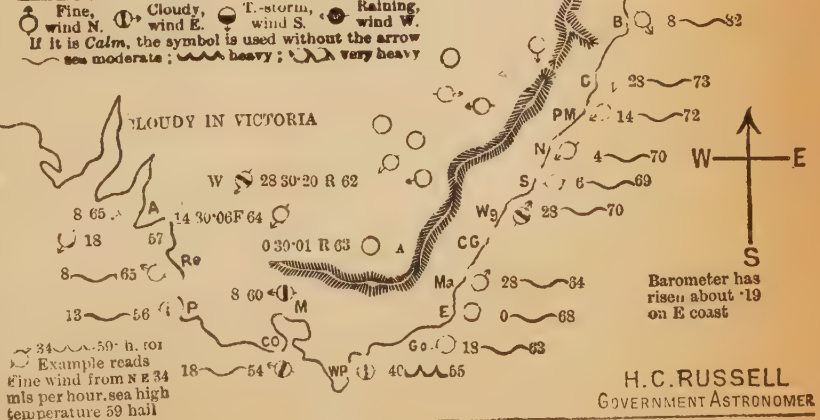
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·91*s* *E*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to November ..46·031
**Total** Rainfall from Jan. 1st to November 16 28·411.
**Barometers** corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 100 | 58 | 0 |
| Tenterfild | b | 83 | 54 | 0 |
| Moree.... | b | 81 | 62 | 0 |
| Grafton.. | b | 104 | 64 | 0 |
| Inverell.. | b | 90 | 47 | 0 |
| Bourke .. | . | .. | .. | .. |
| Narrabri | b | 87 | 54 | 0 |
| Armidale | b | 76 | 41 | 0 |
| Bendem'r | b | 86 | 46 | 0 |
| Gunned'h | b | 94 | 39 | 0·40 |
| Coonab'rn | b | 79 | 41 | 0 |
| P.Macqrie | b | 74 | 60 | 0 |
| Murr'undi | b | 79 | 53 | 0 |
| Cassilis.. | b | 85 | 46 | 0 |
| Mus'br'ok | b | 85 | 48 | 0 |
| Dubbo... | b | 80 | 58 | 0 |
| Mudgee.. | b | 90 | 44 | 0 |
| Maitland. | b | 83 | 57 | 0 |
| Hill End. | b | 67 | 41 | 0 |
| Newcastle | b | 79 | 55 | 0 |
| Orange.. | b | 66 | 28 | 0 |
| Bathurst. | b | 69 | 38 | 0 |
| Condob'ln | b | 70 | 59 | 0 |
| MtVict'ria | b | 69 | 45 | 0 |
| Forbes... | b | 92 | 55 | 0 |
| SYDNEY. . | b | 79 | 58 | 0 |
| 18 66 | | E | | |
| Pictor | b | 78 | 43 | 0 |
| Wentw'th | c | 75 | 53 | 0 |
| Young... | b | 74 | 46 | 0 |
| Wollgo'ng | c | 89 | 57 | 0 |
| Moss Vale | b | 67 | 49 | 0 |
| Euston... | . | .. | .. | .. |
| Goulburn | b | 56 | 48 | 0 |
| Wagga... | b | 77 | 48 | 0 |
| Cape Geo. | . | .. | .. | .. |
| Queanb'n | . | .. | .. | . |
| Deniliq'in | b | 73 | 49 | 0 |
| Moruya.. | b | 76 | 50 | 0 |
| Kiandra.. | b | 53 | 22 | 0 |
| Albury . | b | 80 | 41 | 0 |
| Bodalla. | b | 78 | 43 | 0 |
| Cooma... | b | 82 | 36 | 0 |
| Eden.... | b | 75 | 50 | 0 |
| Gabo Isl'd | b | 65 | 52 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy




**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

Barometer has risen about ·19 on E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M.,** November 17 1880, with **NOTES to 3 P.M**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

**Average Annual Rainfall for 21 years** ............ 52·481.
**Average for 21 years from Jan. 1st to** November 17 . . 46·031
**Total Rainfall from Jan. 1st to** November 17 28·411.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 83 | 41 | 0 |
| Tenterfild | b | 80 | 46 | 0 |
| Moree.... | g | 85 | 72 | 0 |
| Grafton.. | b | 82 | 64 | 0 |
| Inverell.. | b | 81 | 59 | 0 |
| Bourke .. | b | 92 | 65 | 0 |
| Narrabri | b | 88 | 66 | 0 |
| Armidale | b | 77 | 47 | 0 |
| Bendem'r | b | 85 | 52 | 0 |
| Gunned'h | . | .. | .. | . |
| Coonab'rn | b | 85 | 47 | 0 |
| P.Macqrie | b | 70 | 58 | 0 |
| Murr'undi | b | 81 | 56 | 0 |
| Cassilis.. | b | 85 | 51 | 0 |
| Mus'br'ok | b | 88 | 54 | 0 |
| Dubbo... | b | 82 | 63 | 0 |
| Mudgee.. | b | 87 | 58 | 0 |
| Maitland. | b | 81 | 61 | 0 |
| Hill End. | b | 74 | 41 | 0 |
| Newcastle | b | 75 | 63 | 0 |
| Orange.. | b | 71 | 31 | 0 |
| Bathurst. | b | 79 | 46 | 0 |
| Condob'ln | . | .. | .. | .. |
| MtVict'ria | b | 79 | 47 | 0 |
| Forbes... | b | 95 | 58 | 0 |
| SYDNEY... | b | 76 | 61 | 0 |
| ↑ 13 83 | | E | | |
| Pictor | . | .. | .. | .. |
| Wentw'th | b | 86 | 59 | 0 |
| Young... | b | 76 | 55 | 0 |
| Wollgo'ng | b | 77 | 56 | 0 |
| Moss Vale | b | 73 | 47 | 0 |
| Euston... | b | 85 | 53 | 0 |
| Goulburn | b | 79 | 47 | 0 |
| Wagga... | b | 85 | 54 | 0 |
| Cape Geo. | b | 74 | . | 0 |
| Queanb'n | b | 81 | 51 | 0 |
| Deniliq'in | c | 81 | 49 | 0 |
| Moruya.. | b | 70 | 53 | 0 |
| Kiandra.. | b | 60 | 21 | 0 |
| Albury.. | b | 84 | 47 | 0 |
| Bodalla.. | b | 76 | 52 | 0·02 |
| Cooma... | b | 79 | 58 | 0 |
| Eden.... | b | 73 | 55 | 0 |
| Gabo Isl'd | b | 64 | 56 | 0 |

*Curve showing state of Barometer.*

**Fine, wind N.** **Cloudy, wind E.** **T.-storm, wind S.** **Raining, wind W.**
**If it is *Calm*, the symbol is used without the arrow**
**sea moderate; heavy; very heavy**

WIND SCALE. (Ml's)
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

Fine wind from N E 34 ... sea high temperature 59 hail

Barometer has risen about ·17 on E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

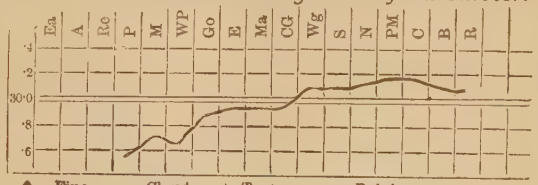
**COMPILED from TELEGRAMS for 9 A.M., November 18 1880, with NOTES to 3 P.M.**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** November 1 .. 46·031
**Total Rainfall from Jan. 1st to** November 18 28·411.
**Barometers corrected to 32° Fah.** and Mean Sea Level

*Curve showing state of Barometer.*

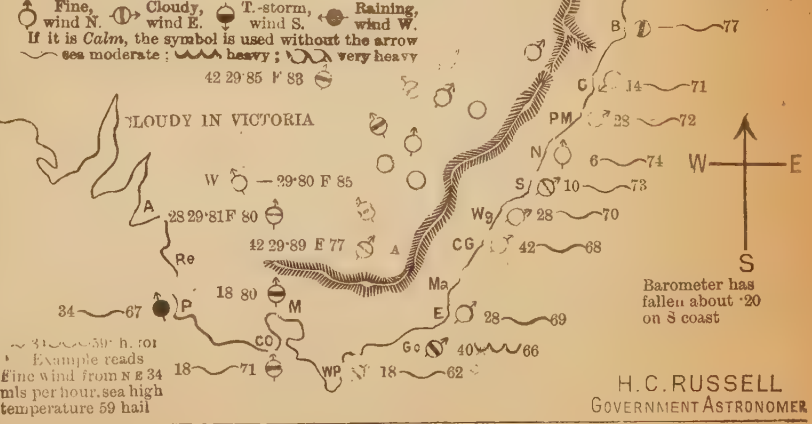



**Fine, wind N.** **Cloudy, wind E.** **T.-storm, wind S.** **Raining, wind W.**

**If it is *Calm*, the symbol is used without the arrow**

**sea moderate ; heavy ; very heavy**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 82 | 56 | 0 |
| Tenterfild. | b | 74 | 45 | 0 |
| Moree.... | b | 85 | 74 | 0 |
| Grafton.. | b | 83 | 62 | 0 |
| Inverell.. | b | 85 | 51 | 0 |
| Bourke .. | c | 97 | 74 | 0 |
| Narrabri | b | 89 | 69 | 0 |
| Armidale | b | 77 | 40 | 0 |
| Bendem'r | b | 85 | 51 | 0 |
| Gunned'h | g | 94 | 50 | 0 |
| Coonab'rn | b | 89 | 53 | 0 |
| P.Macqrie | b | 76 | 63 | 0 |
| Murr'undi | b | 85 | 70 | 0 |
| Cassilis.. | b | 90 | 56 | 0 |
| Mus'br'ok | b | 91 | 58 | 0 |
| Dubbo... | b | 88 | 70 | 0 |
| Mudgee . | g | 91 | 62 | 0 |
| Maitland. | b | 85 | 67 | 0 |
| Hill End. | b | 79 | 52 | 0 |
| Newcastle | b | 75 | 64 | 0 |
| Orange.. | b | 80 | 53 | 0 |
| Bathurst. | c | 84 | 53 | 0 |
| Condob'ln | b | 78 | 59 | 0 |
| MtVict'ria | b | 79 | 52 | 0 |
| Forbes... | c | 90 | 61 | 0 |
| SYDNEY... | c | 74 | 64 | 0 |
| | | E | | |
| Pictor | b | 87 | 48 | 0 |
| Wentw'th | b | 95 | 69 | 0·05 |
| Young... | c | 83 | 65 | 0 |
| Wollgo'ng | b | 76 | 60 | 0 |
| Moss Vale | b | 76 | 54 | 0 |
| Euston... | b | 96 | 59 | 0 |
| Goulburn | b | 80 | 49 | 0 |
| Wagga... | g | 91 | 64 | 0 |
| Cape Geo. | b | 84 | . | 0 |
| Queanb'n | b | 89 | 58 | 0 |
| Deniliq'in | g | 94 | 62 | 0 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | g | 65 | 30 | 0 |
| Albury.. | g | 59 | 53 | 0 |
| Bodalla.. | . | .. | .. | .. |
| Cooma... | c | 80 | 53 | 0 |
| Eden.... | b | 69 | 60 | 0 |
| Gabo Isl'd | c | 68 | 61 | 0 |




~ 34 ~ 59 h. for
Example reads
Fine wind from N E 34 mls per hour, sea high temperature 59 hail

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatenings

TIME BALL
Drops at 1 p.m. S T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

Barometer has fallen about ·20 on S coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

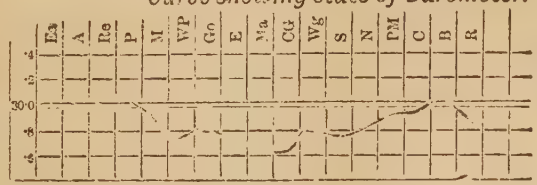
**COMPILED** from TELEGRAMS for 9 A.M., November 19 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·21*s* *E*

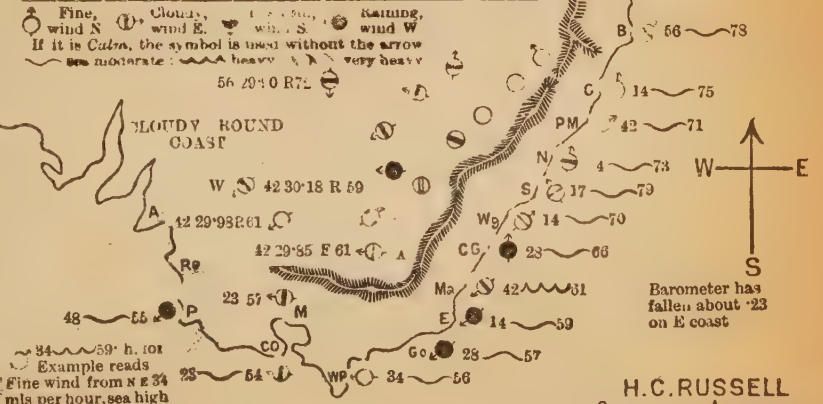
**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan 1st to November . 46·031
**Total** Rainfall from Jan. 1st to November 19 28·411.
**Barometers** corrected to 32° Fah and Mean Sea Level

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. [illegible] wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate : heavy very heavy

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 86 | 58 | 0 |
| Tenterfield | b | 78 | 56 | 0 |
| Moree. .. | g | 83 | 75 | 0 |
| Grafton.. | b | 83 | 62 | 0 |
| Inverell.. | g | 84 | 60 | 0 |
| Bourke .. | b | | .. | 0 |
| Narrabri | c | 88 | 73 | 0 |
| Armidale | b | 79 | 42 | 0 |
| Bendem'r | b | 85 | 55 | 0 |
| Gunned b | g | 97 | 55 | 0 |
| Coonab'rn | g | 90 | 65 | 0·01 |
| P.Macquarie | m | 76 | 67 | 0 |
| Murrundi | g | 87 | 67 | 0 |
| Cassilis | g | 88 | 63 | 0 |
| Mus'br'ok | g | 98 | 64 | 0 |
| Dubbo... | g | 90 | 65 | 0·11 |
| Mudgee | g | 85 | 64 | 0·40 |
| Maitland | b | 89 | 68 | 0 |
| Hill End.. | g | 8[illegible] | 49 | 0 |
| Newcast'e | g | 79 | 65 | 0 |
| Orange.. | g | 82 | 50 | 0·23 |
| Bathurst.. | c | 85 | 62 | 0·07 |
| Condon'lin | b | .. | .. | 0 |
| MtVict'ria | c | 84 | 62 | 0 |
| Forbes.. | c | 94 | 57 | 0·32 |
| SYDNEY... | c | 80 | 65 | 0 |
| | | E | | |
| Picton | c | .. | | 0 |
| Wentw'th | c | 100 | 51 | 0 |
| Young... | p | 83 | 66 | 0·31 |
| Wollgo'ng | c | 74 | 63 | 0 |
| Moss Vale | g | 81 | 62 | 0 |
| Euston... | b | .. | .. | 0 |
| Goulburn | g | 87 | 59 | 0·48 |
| Wagga... | p | 91 | 62 | 0·43 |
| Cape Geo. | d | 71 | | 0 |
| Queanb'n | c | 88 | 63 | 0·39 |
| Deniliq'in | b | 100 | 50 | 0·13 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | g | 96 | 59 | 0·43 |
| Bodalla. | g | 79 | 60 | 0·18 |
| Cooma... | c | 83 | 52 | 0·29 |
| Eden.... | p | 70 | 58 | 0·33 |
| Gabo Isl'd | r | 71 | 56 | 0·31 |




WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
Mil's
13-Lit brze
22-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m.S
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

H.C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., November 20 1880, with **NOTES** to 3 P.M.

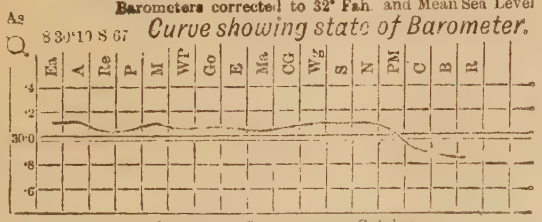
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s E*

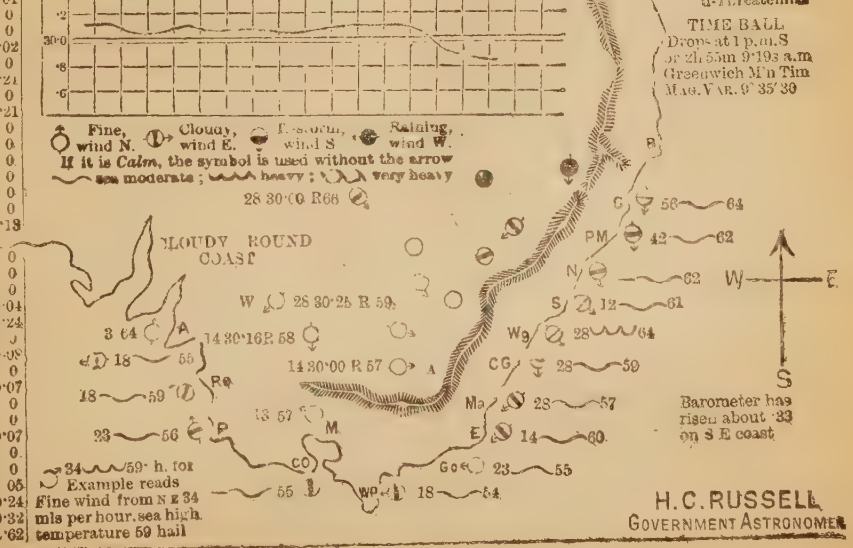
Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to November ..46·031
Total Rainfall from Jan. 1st to November 20 28·536.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wh. | Max. | Min. | rain |
|---|---|---|---|---|
| Casino. | p | 93 | 64 | 0·02 |
| Tenterfield | g | 82 | 54 | 0·53 |
| Moreton | p | 73 | 65 | 0·12 |
| Grafton.. | p | 90 | 68 | 0·02 |
| Inverell.. | c | 86 | 61 | 0·32 |
| Bourke .. | c | 83 | 58 | 0 |
| Narrabri | . | .. | .. | .. |
| Armidale | d | 79 | 47 | 0·85 |
| Bendem'r | g | 85 | 52 | 0·62 |
| Gunned'h | g | 87 | 52 | 0 |
| Coonab'rn | g | 77 | 52 | 0 |
| P. Macqrie | g | 76 | 61 | 1·01 |
| Murr'undi | g | 78 | 57 | 0 |
| Cassilis.. | g | 88 | 54 | 0 |
| Mus'br'ok | g | 92 | 55 | 0·02 |
| Dubbo... | c | 84 | 54 | 0 |
| Mudgee .. | g | 81 | 51 | 0·24 |
| Maitland. | g | 92 | 64 | 0 |
| Hill End. | g | 71 | 40 | 0·21 |
| Newcastle | g | 84 | 61 | 0 |
| Orange.. | g | 71 | 35 | 0 |
| Bathurst. | g | 75 | 42 | 0 |
| Condob'lin | b | 66 | 57 | 0 |
| M'Vict'ria | g | 78 | 41 | 0 |
| Forbes... | b | 83 | 63 | 0 |
| SYDNEY . | g | 79 | 57 | 0·18 |
| Victoria | g | 80 | 47 | 0 |
| Wentw'th | b | 76 | 45 | 0 |
| Young... | b | 79 | 45 | 0 |
| Wolgo'ng | c | 75 | 53 | 0·04 |
| Moss Vale | b | 74 | 45 | 0·24 |
| Euston... | b | 94 | 46 | 0 |
| Goulburn | g | 75 | 40 | 0·08 |
| Wagga... | b | 91 | 45 | 0 |
| Cape Geo. | b | 62 | | 0·07 |
| Queanb'n | b | 69 | 45 | 0 |
| Deniliq in | b | 71 | 40 | 0 |
| Moruya.. | b | 65 | 46 | 0·07 |
| Kiandra.. | b | 44 | 18 | 0 |
| Albury . | b | 72 | 37 | 0 |
| Bodalla. | b | 65 | 40 | 1·05 |
| Cooma... | b | 80 | 33 | 0·24 |
| Eden.... | c | 62 | 49 | 0·32 |
| Gabo Isl'd | b | 59 | 50 | 0·62 |

## Curve showing state of Barometer.




Fine, wind N. Cloudy, wind E. Rain or fog, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




**WEATHER.**
a-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

**WIND SCALE.**
1-Light breze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m.S
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

Barometer has risen about ·33 on S E coast

Example reads
Fine wind from N E 34
mls per hour. sea high.
temperature 59 hail

H. C. RUSSELL,
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., November 22 1880, with NOTES to 3 P.M.**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

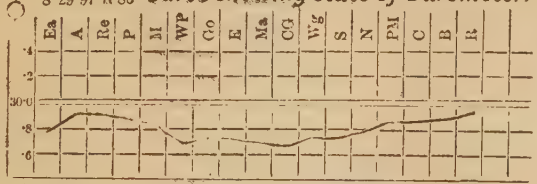
**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** November . 46·031
**Total Rainfall from Jan. 1st to** November 22 28·537.
**Barometers corrected to 32° Fah** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | p | 84 65 | | 0 |
| Tenterfild | b | 74 41 | | 0 |
| Moree.... | b | 75 63 | | 0 |
| Grafton.. | c | 75 38 | | 0 |
| Inverell.. | b | 85 48 | | 0·58 |
| Bourke .. | b | 9 6 | | 0 |
| Narrabri | b | 85 55 | | 0 |
| Armidale | b | 79 45 | | 0·47 |
| Bendemir | b | 76 45 | | 0·43 |
| Gunnedb | b | 92 39 | | 0 |
| Coonabrn | b | 81 40 | | 0 |
| P.Macqrie | b | 71 57 | | 0 |
| Murr'undi | b | 77 56 | | 0 |
| Cassilis. | b | 84 44 | | 0 |
| Mus'br'ok | b | 87 55 | | 0 |
| Dubbo... | b | 81 52 | | 0 |
| Mudgee . | b | 81 30 | | 0 |
| Maitland. | b | 81 59 | | 0 |
| Hill End. | b | 70 44 | | 0 |
| Newcastle | b | 79 51 | | 0 |
| Orange. | b | 70 33 | | 0 |
| Bathurst. | b | 74 59 | | 0 |
| Condob'in | . | .. | .. | . |
| MtVict'ria | b | 74 50 | | 0 |
| Forbes... | b | 92 55 | | 0 |
| SYDNEY . | b | 78 59 | | 0 |
| 13 70 | L | | | |
| Pictor | b | 83 48 | | 0 |
| Wentw'th | . | .. | .. | . |
| Young... | b | 76 51 | | 0 |
| Wollgo'ng | b | 75 57 | | 0 |
| Moss Vale | b | 72 50 | | 0 |
| Euston... | . | .. | .. | .. |
| Goulburn | b | 72 46 | | 0 |
| Wagga... | b | 86 48 | | 0 |
| Cape Geo. | b | 70 | | 0 |
| Queanb'n | b | 80 47 | | 0 |
| Deniliq in | b | 82 51 | | 0 |
| Moruya.. | b | 69 41 | | 0 |
| Kiandra.. | b | 50 20 | | 0 |
| Albury.. | b | 86 40 | | 0 |
| Lodalia. | o | 78 40 | | 0 |
| Cooma... | b | 77 47 | | 0 |
| Eden.... | g | 70 55 | | 0 |
| Gabo Isl'd | g | 70 55 | | 0 |

As

8 29·97 R 86

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T. storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

0 29·34 F 91

FINE IN N.S. WALES

W

8 62 A

14 29·95 F 64

13 57

18 57

28 55

Re

P

13 55

M

CO

23 55

WP

23 55

Go

23 59

Ma

23 62

E

14 59

CG

14 64

Wg

42 68

S

4 74

N

8 70

PM

14 69

C

14 68

B

R

Ml's WIND SCALE.
13-Lit brze
23-Mod. ,,
34-Fresh ,,
4-Strg gale
5-Whole ,,

**WEATHER.**
b-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

W E S

Barometer has fallen about ·33 on E coast

34 59· h. for
Example reads
Fine wind from N E 34 mls per hour, sea high temperature 59 hail

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

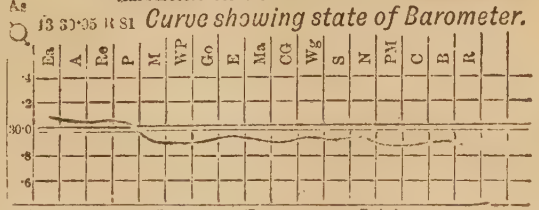
**COMPILED from TELEGRAMS for 9 A.M., November 23 1880, with NOTES to 3 P.M.**

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to November** ..46·031
**Total Rainfall from Jan. 1st to November 23** 28·537.
**Barometers corrected to 32° Fah and Mean Sea Level**

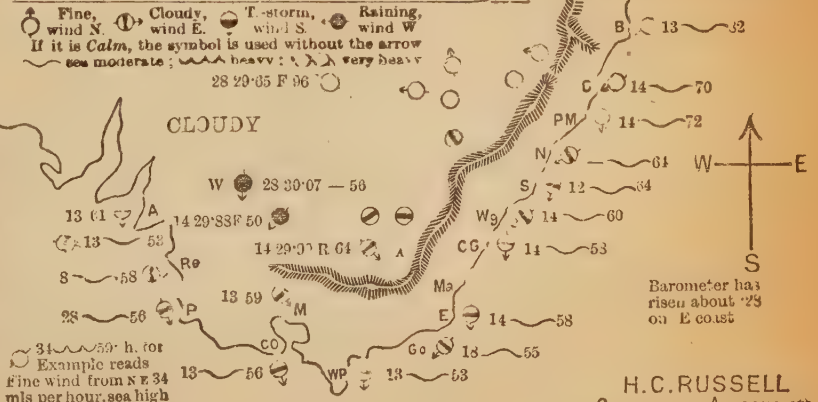
| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 95 | 57 | 0 |
| Tenterfild | b | 81 | 42 | 0 |
| Moree.... | b | 83 | 71 | 0 |
| Grafton.. | b | 82 | 59 | 0 |
| Inverell.. | b | 83 | 51 | 0 |
| Bourke .. | b | 102 | 61 | 0 |
| Narrabri | g | 92 | 62 | 0 |
| Armidale | b | 79 | 45 | 0 |
| Bendem'r | b | 83 | 48 | 0 |
| Gunned'h | g | 98 | 49 | 0 |
| Coonab'rn | b | 90 | 50 | 0 |
| P.Macqrie | b | 74 | 64 | 0 |
| Murr'undi | g | 83 | 58 | 0 |
| Cassilis.. | b | 90 | 48 | 0 |
| Mus'br'ok | b | 96 | 58 | 0 |
| Dubbo... | g | 87 | 58 | 0 |
| Mudgee.. | b | 88 | 43 | 0 |
| Maitland. | g | 89 | 66 | 0 |
| Hill End. | g | 72 | 51 | 0 |
| Newcastle | c | 93 | 63 | 0 |
| Orange.. | g | 71 | 44 | 0 |
| Bathurst. | g | 79 | 55 | 0 |
| Condob'ln | g | 73 | 65 | 0 |
| MtVict'ria | g | 78 | 49 | 0 |
| Forbes... | c | 88 | 58 | 0 |
| SYDNEY .. | c | 82 | 59 | 0 |
| 13 64 | | E | | |
| Pictor | o | 83 | 60 | 0 |
| Wentw'th | p | 78 | 50 | 0·15 |
| Young... | g | 79 | 59 | 0 |
| Wollgo'ng | c | 71 | 50 | 0 |
| Moss Vale | g | 76 | 51 | 0 |
| Euston... | c | 81 | 52 | 0·32 |
| Goulburn | g | 78 | 49 | 0 |
| Wagga... | g | 84 | 61 | 0 |
| Cape Geo. | c | 71 | | 0·04 |
| Queanb'n | c | 82 | 52 | 0 |
| Deniliq'in | r | 76 | 45 | 0·11 |
| Moruya.. | • | .. | .. | .. |
| Kiandra.. | g | 49 | 19 | 0 |
| Albury.. | g | 82 | 54 | 0 |
| Bodalla. | . | .. | .. | . |
| Cooma... | c | 79 | 44 | 0 |
| Eden.... | g | 59 | 53 | 0·01 |
| Gabo Isl'd | g | 63 | 52 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy




**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

Barometer has risen about ·28 on E coast

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

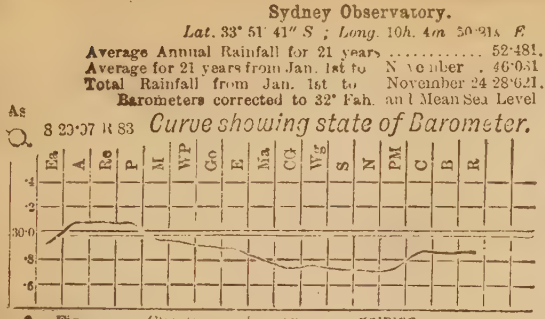
**COMPILED** from **TELEGRAMS** for 9 A M., November 24 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·21*s E*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to November 24 46·031.
Total Rainfall from Jan. 1st to November 24 28·621.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 94 | 62 | 0 |
| Tenterfld | . | .. | .. | .. |
| Moree.... | b | 90 | 75 | 0 |
| Grafton.. | b | 82 | 58 | 0 |
| Inverell.. | b | 86 | 51 | 0·03 |
| Bourke .. | b | 102 | 63 | 0 |
| Narrabri | b | 85 | 65 | 0 |
| Armidale | g | 72 | 41 | 0·30 |
| Bendem'r | b | 84 | 61 | 0·22 |
| Gunned'h | b | 94 | 59 | 0 |
| Coonab'rn | b | 93 | 54 | 0·02 |
| P.Macqrie | b | 77 | 64 | 0·41 |
| Murr'undi | b | 76 | 62 | 0·10 |
| Cassilis. | p | 75 | 57 | 0 |
| Mus'br'ok | b | 88 | 56 | 0·05 |
| Dubbo... | b | 83 | 64 | 0 |
| Mudgee . | b | 88 | 36 | 0·06 |
| Maitland. | b | 77 | 65 | 0 |
| Hill End. | b | 61 | 43 | 0 |
| Newcastle | b | 93 | 63 | 0·51 |
| Orange.. | g | 70 | 43 | 0 |
| Bathurst. | g | 71 | 55 | 0 |
| Condob'lin | . | .. | .. | .. |
| MtVict'ria | c | 59 | 53 | 0·15 |
| Forbes... | b | 88 | 55 | 0 |
| SYDNEY . | g | 67 | 62 | 0·08 |
| Picton | r | 69 | 59 | 1·25 |
| Wentw'th | b | 68 | 45 | 0 |
| Young... | c | 72 | 57 | 0 |
| Wollgo'ng | p | 66 | 59 | 0·30 |
| Moss Vale | r | 62 | 52 | 1·23 |
| Euston... | . | .. | .. | .. |
| Goulburn | g | 63 | 49 | 0·53 |
| Wagga... | . | .. | .. | .. |
| Cape Geo. | c | 64 | .. | 1·10 |
| Queanb'n | r | 72 | 52 | 1·10 |
| Deniliq'in | . | .. | .. | .. |
| Moruya.. | g | 64 | 55 | 1·26 |
| Kiandra.. | g | 49 | 19 | 0 |
| Albury . | b | 72 | 49 | 0 |
| Bodalla. | . | .. | .. | . |
| Cooma... | r | 65 | 47 | 0·40 |
| Eden.... | r | 59 | 54 | 0·97 |
| Gabo Isl'd | c | 59 | 52 | 0·42 |



**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
1-Lt brze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m.S
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″

Barometer has fallen about ·20 on E coast

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

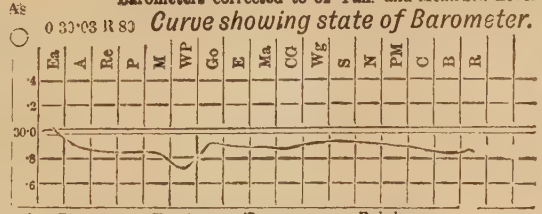
**COMPILED** from **Telegrams** for 9 A.M., November 25 1880, with Notes to 3 P.M.

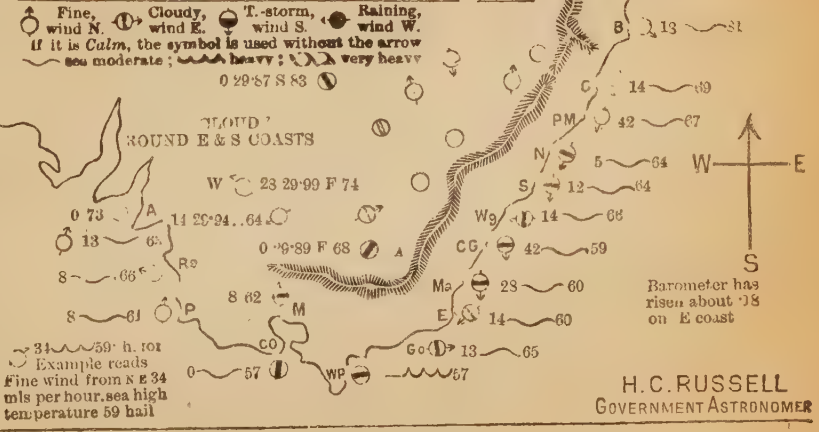
**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** November .. 46·031
**Total Rainfall from Jan. 1st to** November 2 28·621.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 86 | 62 | 0 |
| Tenterfild | b | 87 | 42 | 0 |
| Moree.... | b | 85 | 52 | 0 |
| Grafton.. | b | 94 | 62 | 0 |
| Inverell.. | b | 85 | 54 | 0 |
| Bourke .. | b | 92 | 55 | 0 |
| Narrabri | o | 90 | 65 | 0 |
| Armidale | b | 77 | 53 | 0 |
| Bendem'r | b | 82 | 51 | 0 |
| Gunned'h | b | 91 | 54 | 0 |
| Coonab'rn | b | 87 | 17 | 0 |
| P.Macqrie | b | 78 | 62 | 0 |
| Murr'undi | b | 82 | 58 | 0 |
| Cassilis.. | b | 80 | 52 | 0 |
| Mus'br'ok | b | 89 | 54 | 0·05 |
| Dubbo... | b | 83 | 65 | 0 |
| Mudgee.. | g | 87 | 56 | 0 |
| Maitland. | g | 83 | 63 | 0 |
| Hill End. | b | 64 | 41 | 0 |
| Newcastle | c | 87 | 54 | 0 |
| Orange.. | g | 72 | 44 | 0 |
| Bathurst. | b | 75 | 47 | 0 |
| Condob'ln | b | 72 | 61 | 0 |
| MtVict'ria | b | 68 | 47 | 0 |
| Forbes... | c | 89 | 59 | 0 |
| Sydney . | c | 68 | 60 | 0·02 |
| 13 68 | | E | | |
| Pictor | o | 74 | 58 | 0·06 |
| Wentw'th | b | 77 | 51 | 0 |
| Young... | . | .. | .. | .. |
| Wollgo'ng | c | 72 | 55 | 0 |
| Moss Vale | b | 64 | 49 | 0·06 |
| Euston... | b | 76 | 56 | 0 |
| Goulburn | b | 68 | 49 | 0·02 |
| Wagga... | c | 85 | 58 | 0 |
| Cape Geo. | c | 64 | . | 0 |
| Queanb'n | b | 74 | 51 | 0·03 |
| Deniliq'in | b | 78 | 48 | 0 |
| Moruya.. | g | 63 | 52 | 0·05 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | g | 92 | 52 | 0 |
| Bodalla. | r | 65 | 50 | 0·55 |
| Cooma... | c | 66 | 46 | 0 |
| Eden.... | g | 61 | 54 | 0·32 |
| Gabo Isl'd | g | 68 | 55 | 0 |




**WEATHER.**
b-Blue sky ;
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Ti
Mag. Var. 4° 35′ 30″ E

H. C. RUSSELL
Government Astronomer

# WEATHER MAP.

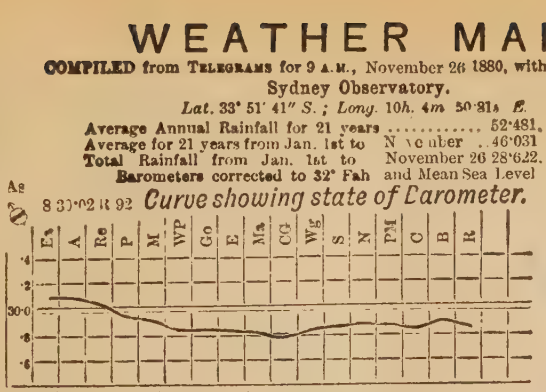
**COMPILED** from **TELEGRAMS** for 9 A.M., November 26 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·21*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to November 26 ..... 46·031
Total Rainfall from Jan. 1st to November 26 28·622.
Barometers corrected to 32° Fah and Mean Sea Level

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino. | b | 87 | 68 | 0 |
| Tenterfild | b | 86 | 55 | 0 |
| Moree.... | b | 87 | 71 | 0 |
| Grafton.. | b | 87 | 59 | 0 |
| Inverell.. | b | 88 | 52 | 0 |
| Bourke .. | b | 96 | 61 | 0 |
| Narrabri | b | 92 | 65 | 0 |
| Armidale | b | 80 | 51 | 0 |
| Bendem'r | b | 86 | 43 | 0 |
| Gunned'h | b | 98 | 15 | 0 |
| Coonab'rn | b | 89 | 42 | 0 |
| P.Macqrie | b | 76 | 72 | 0 |
| Murr'undi | c | 81 | 57 | 0 |
| Cassilis.. | b | 84 | 44 | 0 |
| Mus'br'ok | b | 95 | 57 | 0 |
| Dubbo... | b | 87 | 58 | 0 |
| Mudgee.. | b | 87 | 49 | 0 |
| Maitland. | b | 80 | 58 | 0 |
| Hill End. | b | 75 | 41 | 0 |
| Newcastle | b | 88 | 59 | 0 |
| Orange.. | b | 76 | 32 | 0 |
| Bathurst. | b | 80 | 45 | 0 |
| Condob'lin | o | 73 | 61 | 0 |
| MtVict'ria | b | 77 | 47 | 0 |
| Forbes... | b | 91 | 57 | 0 |
| SYDNEY.. | b | 70 | 57 | 0 |
| | | L | | |
| Picton | b | 78 | 60 | 0 |
| Wentw'th | b | 87 | 53 | 0 |
| Young... | b | 76 | 49 | 0 |
| Wollgo'ng | b | 70 | 52 | 0 |
| Moss Vale | b | 71 | 51 | 0 |
| Euston... | b | 92 | 55 | 0 |
| Goulburn | b | 78 | 45 | 0 |
| Wagga... | b | 86 | 51 | 0 |
| Cape Geo. | c | 67 | . | 0 |
| Queanb'n | . | . | . | .. |
| Deniliq'in | b | 85 | 56 | 0 |
| Moruya.. | g | 69 | 57 | 0 |
| Kiandra.. | b | 75 | 25 | 0 |
| Albury . | b | 88 | 47 | 0 |
| Bodalla. | c | 73 | 56 | 0 |
| Cooma... | b | 74 | 40 | 0 |
| Eden.... | b | 70 | 53 | 0 |
| Gabo Isl'd | b | 69 | 55 | 0·11 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

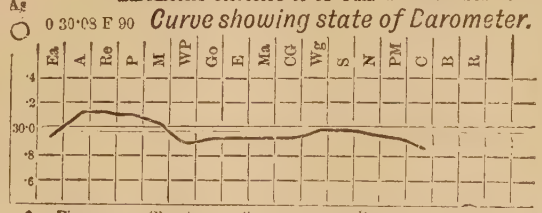
**COMPILED** from **TELEGRAMS** for 9 A.M., November 27 1880, with **NOTES** to 3 P.M.

Sydney Observatory.

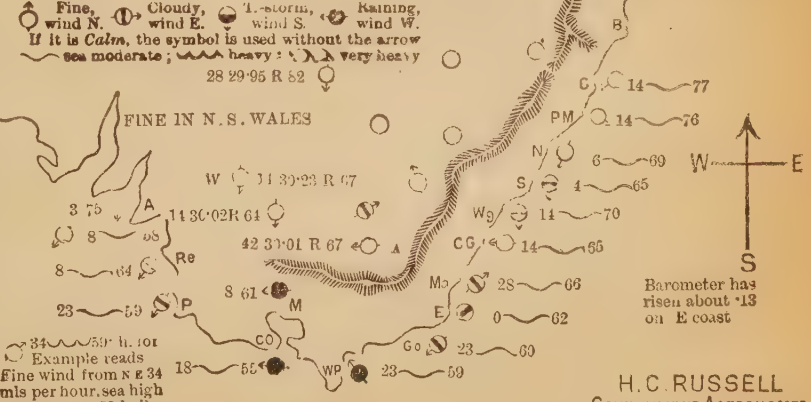
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** November .. 46·031
**Total Rainfall from Jan. 1st to** November 27 28·622.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 97 | 70 | 0 |
| Tenterfild | b | 82 | 43 | 0 |
| Moree.... | . | .. | .. | .. |
| Grafton.. | b | 92 | 66 | 0 |
| Inverell.. | b | 87 | 52 | 0 |
| Bourke .. | b | 103 | 65 | 0 |
| Narrabri | b | 74 | 61 | 0 |
| Armidale | b | 81 | 46 | 0 |
| Bendem'r | b | 87 | 47 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 92 | 45 | 0 |
| P.Macqrie | b | 79 | 63 | 0 |
| Murr'undi | b | 86 | 59 | 0 |
| Cassilis.. | b | 99 | 64 | 0 |
| Mus'br'ok | b | 96 | 47 | 0 |
| Dubbo... | b | 96 | 64 | 0 |
| Mudgee . | b | 92 | 59 | 0 |
| Maitland. | c | 86 | 68 | 0 |
| Hill End. | b | 80 | 41 | 0 |
| Newcastle | b | 84 | 59 | 0 |
| Orange.. | b | 79 | 61 | 0 |
| Bathurst. | b | 83 | 47 | 0 |
| Condob'lin | . | .. | .. | .. |
| MtVict'ria | b | 73 | 50 | 0 |
| Forbes... | b | 88 | 59 | 0 |
| SYDNEY... | c | 84 | 63 | 0 |
| 18 75 | E | | | |
| Pictor | g | 84 | 61 | 0 |
| Wentw'th | b | 82 | 53 | 0 |
| Young... | b | 83 | 54 | 0 |
| Wollgo'ng | c | 73 | 69 | 0 |
| Moss Vale | . | .. | .. | .. |
| Euston... | b | 85 | 56 | 0 |
| Goulburn | b | 81 | 53 | 0 |
| Wagga... | b | 88 | 55 | 0 |
| Cape Geo. | b | 66 | . | 0 |
| Queanb'n | b | 85 | 55 | 0 |
| Deniliq'in | b | 82 | 51 | 0 |
| Moruya.. | b | 72 | 56 | 0 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | b | 89 | 46 | 0 |
| Bodalla. | b | 78 | 53 | 0 |
| Cooma... | c | 80 | 50 | 0 |
| Eden.... | g | 74 | 57 | 0 |
| Gabo Isl'd | c | 64 | 57 | 0 |




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




Barometer has risen about ·13 on E coast

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Ml's WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

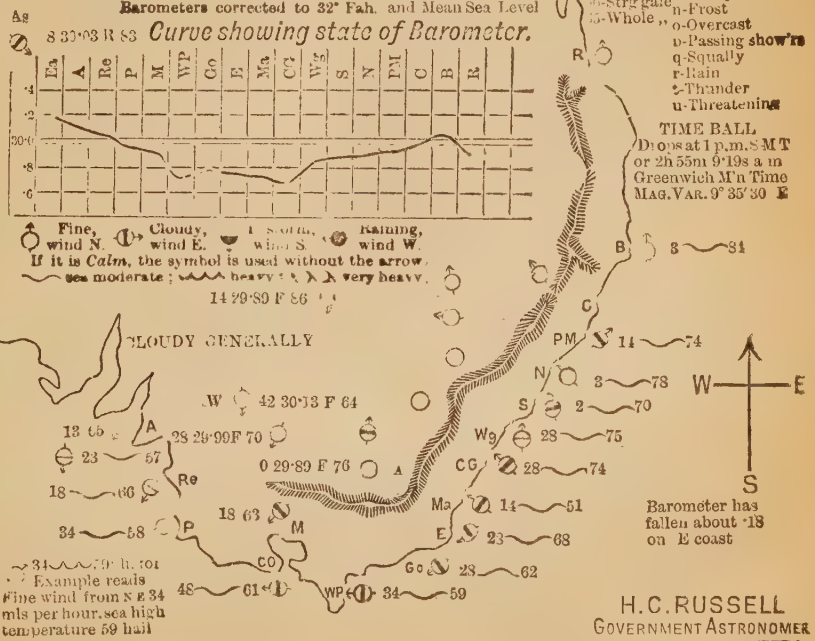
**COMPILED** from TELEGRAMS for 9 A.M., November 29 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** November ..46·031
**Total Rainfall from Jan. 1st to** November 29 28·622.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 93 | 71 | 0·15 |
| Tenterfild | . | .. | .. | .. |
| Moree.... | b | 94 | 81 | 0 |
| Grafton... | g | 87 | 57 | 0·22 |
| Invered.. | b | 94 | 62 | 0 |
| Bourke .. | c | 101 | 72 | 0 |
| Narrabri | b | 99 | 51 | 0 |
| Armidale | b | 85 | 55 | 0 |
| Ben lem'r | b | 92 | 52 | 0 |
| Gunned'h | b | 109 | 59 | 0 |
| Coonab'rn | b | 96 | 59 | 0 |
| P.Macqrie | g | 76 | 66 | 0·16 |
| Murr'undi | c | 83 | 61 | 0 |
| Cassilis.. | c | 100 | 64 | 0 |
| Mus br'ok | b | 84 | 62 | 0 |
| Dubbo... | c | 89 | 63 | 0 |
| Mudgee . | b | 93 | 62 | 0 |
| Maitland. | b | 82 | 66 | 0·11 |
| Hill End. | g | 78 | 50 | 0 |
| Newcastle | b | 80 | 61 | 0·01 |
| Orange.. | c | 81 | 41 | 0 |
| Bathurst. | c | 81 | 51 | 0 |
| Condob'in | . | .. | .. | .. |
| MtVict'ria | b | .. | 49 | 0 |
| Forbes... | g | 96 | 61 | 0 |
| SYDNEY . | c | 71 | 64 | 0 |
| 13 66 | | E | | |
| Pictor | b | 77 | 58 | 0 |
| Wentw'th | b | 94 | 57 | 0 |
| Young... | c | 91 | 63 | 0 |
| Wollgo'ng | c | 76 | 65 | 0 |
| Moss Vale | b | 7[illegible] | 56 | 0 |
| Euston... | b | 101 | 57 | 0 |
| Goulburn | b | 79 | 54 | 0 |
| Wagga... | b | 89 | 53 | 0 |
| Cape Geo. | b | 73 | . | 0 |
| Queanb'n | b | 84 | 57 | 0 |
| Deniliq'in | b | 92 | 52 | 0 |
| Moruya.. | b | 69 | 59 | 0 |
| Kiandra.. | p | 60 | 21 | 0 |
| Albury.. | b | 93 | 48 | 0 |
| Bodalla. | . | . | .. | .. |
| Cooma... | c | 78 | 55 | 0 |
| Eden.... | b | 67 | 58 | 0 |
| Gabo Isl'd | c | 65 | 60 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., November 30 1880, with **NOTES** to 3 P.M

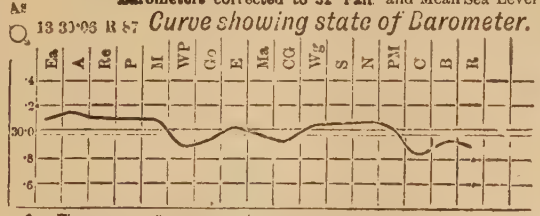
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 30·81*s* *E.*

**Average** Annual Rainfall for 21 years ..... 52·481.
**Average** for 21 years from Jan. 1st to November . 46·031
**Total** Rainfall from Jan. 1st to November 30 28·715.
**Barometers** corrected to 32° Fah. and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 96 | 64 | 0·29 |
| Tenterfild | b | 87 | 50 | 2 20 |
| Moree.... | b | 91 | 76 | 0 |
| Grafton.. | b | 92 | 65 | 0·25 |
| Inverell.. | b | 94 | 61 | 0 |
| Bourke .. | b | 97 | 68 | 0 |
| Narrabri | . | .. | .. | .. |
| Armidale | b | 85 | 53 | 0·50 |
| Bendem'r | b | 90 | 59 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 90 | 52 | 0 |
| P.Macqrie | f | 79 | 67 | 0·03 |
| Murr'undi | o | 84 | 63 | 0 |
| Cassilis.. | g | 91 | 61 | 0 |
| Mus'br'ok | b | 95 | 54 | 0 |
| Dubbo... | b | 89 | 63 | 0 |
| Mudgee .. | b | 83 | 46 | 0 |
| Maitland. | c | 90 | 67 | 0 |
| Hill End. | b | 82 | 43 | 0 |
| Newcastle | g | 87 | 58 | 0 |
| Orange.. | c | 84 | 35 | 0 |
| Bathurst. | b | 86 | 49 | 0 |
| Condob'in | . | .. | .. | .. |
| MtVict'ria | b | .. | 49 | 0 |
| Forbes... | b | 92 | 63 | 0 |
| SYDNEY.. | b | 79 | 61 | 0·09 |
| 13 63 | E | | | |
| Picton | o | 89 | 58 | 0 |
| Wentw'th | b | 83 | 51 | 0 |
| Young... | b | 86 | 55 | 0 |
| Wollgo'ng | b | 87 | 57 | 0 |
| Moss Vale | b | 82 | 52 | 0 |
| Euston... | b | 89 | 54 | 0 |
| Goulburn | b | 87 | 47 | 0 |
| Wagga... | b | 94 | 58 | 0 |
| Cape Geo. | b | 75 | | 0 |
| Queanb'n | b | 89 | 50 | 0 |
| Deniliq'in | b | 82 | 48 | 0 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | b | 61 | 22 | 0 |
| Albury.. | b | 89 | 47 | 0 |
| Bodalla. | b | 77 | 52 | 0 |
| Cooma... | b | 84 | 41 | 0 |
| Eden.... | b | 75 | 52 | 0 |
| Gabo Isl'd | b | 62 | 55 | 0 |

## Curve showing state of Barometer.




Fine, wind N. Cloudy, wind E. [illegible] raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., December 1 1880, with NOTES to 3 P.M.

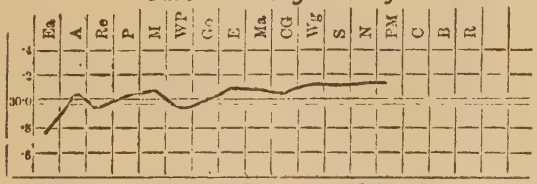
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

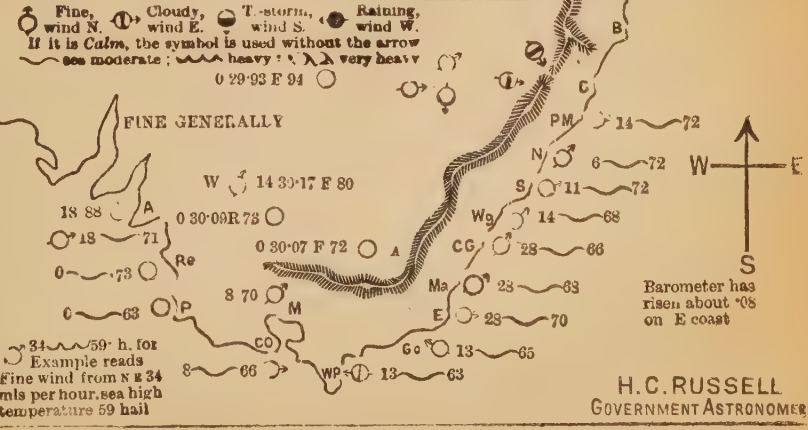
**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** December 1 49·445.
**Total Rainfall from Jan. 1st to** December 1 28·22.
**Barometers corrected to 32° Fah** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 85 | 67 | 0 |
| Tenterfild | g | 80 | 58 | 0 |
| Moree.... | b | 90 | 73 | 0 |
| Grafton.. | g | 79 | 62 | 0 |
| Inverell.. | b | 86 | 65 | 0 |
| Bourke .. | b | 100 | 66 | 0 |
| Narrabri | b | 97 | 75 | 0 |
| Armidale | g | 81 | 54 | 0 |
| Bendem'r | b | 89 | 61 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 94 | 51 | 0 |
| P.Macqrie | b | 73 | 59 | 0 |
| Murr'undi | b | 83 | 62 | 0 |
| Cassilis.. | b | 102 | 61 | 0 |
| Mus'br'ok | b | 88 | 58 | 0 |
| Dubbo... | b | 89 | 69 | 0 |
| Mudgee.. | b | 92 | 47 | 0 |
| Maitland. | b | 82 | 64 | 0 |
| Hill End. | b | 78 | 44 | 0 |
| Newcastle | b | 75 | 64 | 0 |
| Orange.. | b | 77 | 51 | 0 |
| Bathurst. | . | .. | .. | .. |
| Condob'ln | b | 79 | 67 | 0 |
| MtVict'ria | b | .. | 51 | 0 |
| Forbes... | b | 96 | 63 | 0 |
| SYDNEY... | b | 73 | 64 | 0·01 |
| 13 83 | | E | | |
| Pictor | b | 66 | 53 | 0 |
| Wentw'th | b | 89 | 57 | 0 |
| Young... | b | 82 | 58 | 0 |
| Wollgo'ng | c | 74 | 61 | 0 |
| Moss Vale | b | 77 | 57 | 0 |
| Euston... | b | 91 | 59 | 0 |
| Goulburn | b | 82 | 55 | 0 |
| Wagga... | b | 88 | 56 | 0 |
| Cape Geo. | b | 69 | .. | 0 |
| Queanb'n | b | 90 | 60 | 0 |
| Deniliq'in | b | 83 | 53 | 0 |
| Moruya.. | . | . | .. | .. |
| Kiandra.. | b | 64 | 35 | 0 |
| Albury.. | b | 88 | 50 | 0 |
| Bodalla. | b | 75 | 58 | 0 |
| Cooma... | b | 79 | 53 | 0 |
| Eden.... | b | 73 | 53 | 0 |
| Gabo Isl'd | c | 68 | .. | 0 |

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




34 59 h. for Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

Barometer has risen about ·08 on E coast

**WEATHER.**
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
13-Li't brze
23-Mod. „
34-Fresh „
56-Strg gale
55-Whole „

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M.,** December 2 1880, with NOTES to 3 P.M.

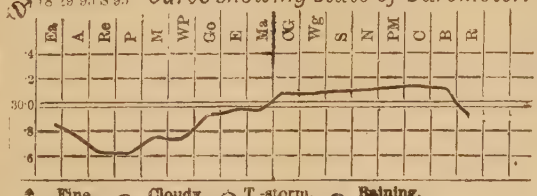
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long* 10*h.* 4*m* 50·21*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** December 1 - 49·445.
**Total Rainfall from Jan. 1st to** December 2 28·741.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wtr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 84 | 60 | 0·01 |
| Tenterfild | g | 50 | 49 | 0 |
| Moree.... | b | 89 | 76 | 0·15 |
| Grafton.. | b | 82 | 65 | 0 |
| Inverell.. | b | 86 | 62 | 0 |
| Bourke .. | b | 105 | 66 | 0 |
| Narrabri | b | 97 | 70 | 0 |
| Armidale | b | 81 | 47 | 0 |
| Bendem'r | b | 90 | 51 | 0 |
| Gunned'h | b | 104 | 51 | 0 |
| Coonab'rn | b | 61 | 56 | 0 |
| P.Macqrie | b | 75 | 60 | 0 |
| Murr'undi | b | 87 | 63 | 0 |
| Cassilis.. | b | 95 | 60 | 0 |
| Mus'br'ok | b | 93 | 57 | 0 |
| Dubbo... | b | 92 | 72 | 0 |
| Mudgee.. | b | 91 | 49 | 0 |
| Maitland. | b | 84 | 62 | 0 |
| Hill End. | . | .. | .. | .. |
| Newcastle | b | 75 | 64 | 0 |
| Orange.. | b | 83 | 54 | 0 |
| Bathurst. | b | 88 | 54 | 0 |
| Condob'ln | b | 82 | 67 | 0 |
| MtVict'ria | b | . | 51 | 0 |
| Forbes... | b | 105 | 74 | 0 |
| SYDNEY.. | b | 75 | 61 | 0 |
| 28 65 | | E | | |
| ↓ Pictor | b | 85 | 53 | 0 |
| Wentw'th | g | 101 | 69 | 0 |
| Young... | b | 86 | 65 | 0 |
| Wollgo'ng | b | 76 | 58 | 0 |
| Moss Vale | b | 92 | 55 | 0 |
| Euston... | b | 102 | 68 | 0 |
| Goulburn | b | 86 | 53 | 0 |
| Wagga... | b | 95 | 58 | 0 |
| Cape Geo. | b | 71 | . | 0 |
| Queanb'n | . | .. | .. | .. |
| Deniliq'in | g | 95 | 58 | 0 |
| Moruya.. | b | 72 | 58 | 0 |
| Kiandra.. | b | 74 | 25 | 0 |
| Albury.. | b | 96 | 55 | 0 |
| Bodalla.. | . | .. | .. | .. |
| Cooma... | b | 89 | 45 | 0 |
| Eden.... | b | 79 | 59 | 0 |
| Gabo Isl'd | b | 71 | 61 | 0 |

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

Example reads
Fine wind from N E 34 mls per hour, sea high temperature 59 hail

**WEATHER.**
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a m Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

Barometer has fallen about ·25 on S coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

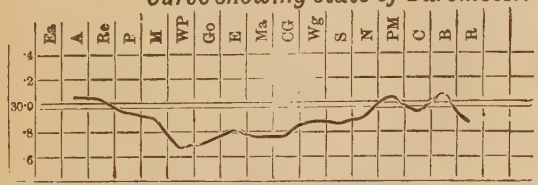
**COMPILED from TELEGRAMS for 9 A.M.,** December 3 1880, with NOTES to 3 P.M.

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481,
**Average for 21 years from Jan. 1st to** December 1 - 49·445,
**Total Rainfall from Jan. 1st to** December 3 28·741,
**Barometers corrected to 32° Fah.** and Mean Sea Level

*Curve showing state of Barometer.*

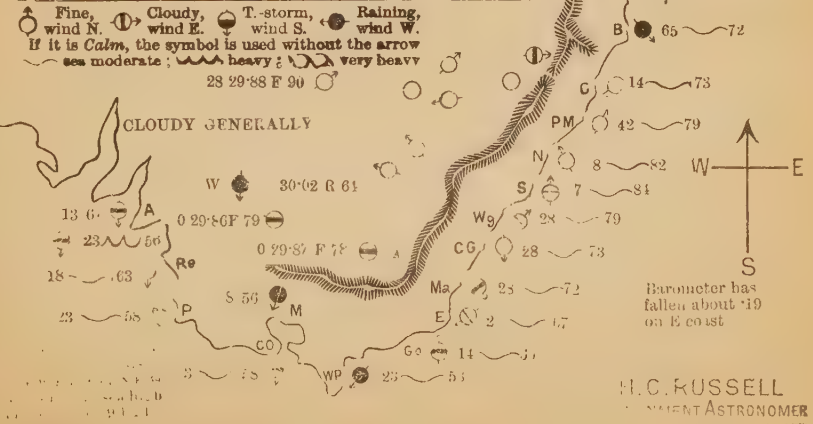



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E




| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 87 | 64 | 0·32 |
| Tenterfild. | g | 72 | 59 | 0 |
| Moree.... | b | 86 | 77 | 0 |
| Grafton.. | b | 86 | 68 | 0 |
| Inverell.. | b | 81 | 63 | 0 |
| Bourke .. | b | 98 | 74 | 0 |
| Narrabri | b | 94 | 73 | 0 |
| Armidale | b | 84 | 45 | 0 |
| Bendem'r | b | 82 | 55 | 0 |
| Gunned'h | b | .. | .. | 0 |
| Coonab'rn | b | 93 | 62 | 0 |
| P.Macqrie | b | 67 | .. | 0 |
| Murr'undi | b | 91 | 71 | 0 |
| Cassilis.. | b | 100 | 64 | 0 |
| Mus'br'ok | b | 98 | 61 | 0 |
| Dubbo... | b | 95 | 73 | 0 |
| Mudgee.. | b | 92 | 49 | 0 |
| Maitland. | b | 88 | 69 | 0 |
| Hill End. | . | 85 | 60 | .. |
| Newcastle | b | 84 | 64 | 0 |
| Orange.. | b | 87 | 66 | 0 |
| Bathurst. | b | 87 | 58 | 0 |
| Condob'ln | b | 84 | 74 | 0 |
| MtVict'ria | b | 79 | 61 | 0 |
| Forbes... | g | 100 | 73 | 0 |
| SYDNEY... | b | 86 | 64 | 0 |
| | | E | | |
| Pictor | b | 88 | 57 | 0 |
| Wentw'th | r | 107 | 61 | 0·21 |
| Young... | c | 90 | 72 | 0 |
| Wollgo'ng | c | 85 | 63 | 0 |
| Moss Vale | b | 85 | 61 | 0 |
| Euston... | g | 109 | 65 | 0 |
| Goulburn | b | 92 | 58 | 0 |
| Wagga... | b | 100 | 69 | 0 |
| Cape Geo. | b | 78 | . | 0 |
| Queanb'n | . | 95 | 63 | 0 |
| Deniliq'in | b | 99 | 62 | 0 |
| Moruya.. | b | 77 | 63 | 0 |
| Kiandra.. | b | 79 | 27 | 0 |
| Albury.. | g | 102 | 73 | 0 |
| Bodalla. | . | 83 | 68 | .. |
| Cooma... | q | 90 | 60 | 0 |
| Eden.... | g | 76 | 64 | 0 |
| Gabo Isl'd | g | 73 | 63 | 0 |

H. C. RUSSELL
...MENT ASTRONOMER

# WEATHER MAP.

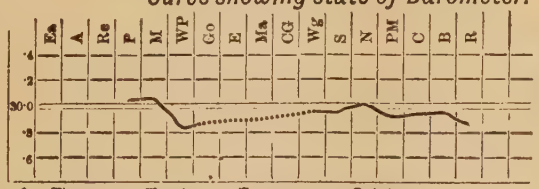
**COMPILED** from **TELEGRAMS** for 9 A.M., December 4 1880, with **NOTES** to 3 P.M

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s E.*

Average Annual Rainfall for 21 years ..... 52·481.
Average for 21 years from Jan. 1st to December 4 49·445.
Total Rainfall from Jan. 1st to December 4 28·818.
Barometers corrected to 32° Fah. and Mean Sea Level

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

| Stations. | Wth | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | | 90 | 63 | 0 |
| Tenterfild | b | 74 | 47 | 0 |
| Moree.... | . | .. | .. | .. |
| Grafton.. | b | 86 | 68 | 0 |
| Inverell.. | . | .. | .. | .. |
| Bourke .. | c | 101 | 79 | 0 |
| Narrabri | . | .. | .. | .. |
| Armidale | b | 85 | 58 | 0 |
| Bendem'r | b | 90 | 54 | 0 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | g | 94 | 69 | 0 |
| P.Macqrie | b | 79 | 69 | 0 |
| Murr'undi | . | .. | .. | .. |
| Cassilis.. | g | 100 | 81 | 0 |
| Mus'br'ok | . | .. | .. | .. |
| Dubbo... | c | 94 | 73 | 0 |
| Mudgee.. | p | 95 | 57 | 0 |
| Maitland. | c | 96 | 74 | 0 |
| Hill End. | r | 86 | 50 | 0·20 |
| Newcastle | g | 90 | 64 | 0 |
| Orange.. | r | 82 | 52 | 0·51 |
| Bathurst. | r | 89 | 57 | 0·37 |
| Condob'ln | r | 75 | 68 | 0·58 |
| MtVict'ria | r | 90 | 61 | 0 44 |
| Forbes... | r | 97 | 68 | 0 |
| SYDNEY... | r | 89 | 65 | 0·08 |
| Pictor | d | 97 | 57 | 0 12 |
| Wentw'th | . | .. | .. | .. |
| Young... | . | .. | .. | .. |
| Wollgo'ng | r | 81 | 62 | 0·10 |
| Moss Vale | r | 90 | 59 | 0·20 |
| Euston... | b | 75 | 48 | 0 |
| Goulburn | g | 91 | 57 | 0·21 |
| Wagga... | b | 89 | 53 | 0·65 |
| Cape Geo. | . | .. | .. | .. |
| Queanb'n | c | 93 | 60 | 0·85 |
| Deniliq'in | b | 79 | 44 | 0·19 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | b | 61 | 23 | 1·70 |
| Albury.. | . | .. | .. | .. |
| Bodalla.. | . | .. | .. | .. |
| Cooma.... | g | 87 | 55 | 0·40 |
| Eden.... | . | .. | .. | .. |
| Gabo Isl'd | . | .. | .. | .. |

CLOUDY GENERALLY

28 29·88 S 80

W

A 28 30·09 R 58

Re

34 60 P

8 59 M

CO

34 59 h. for Example reads
Fine wind from N E 34 mls per hour. sea high temperature 59 hail

40 59

WP 23 57

A

CG

Ma

E

Go

B 48 76

C 14 77

PM 28 74

N 4 67

S 4 65

Wg 14 64

R

WIND SCALE.
0-Calm
1-Li't brze
2-Mod. ,,
3-Fresh ,,
6-Strg gale
5-Whole ,,

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has fallen about ·08 on S coast

H. C. RUSSELL,
GOVERNMENT ASTRONOMER

# WEATHER MAP.

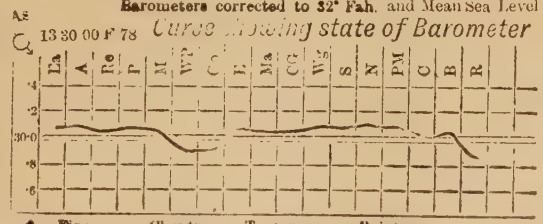
**COMPILED** from TELEGRAMS for 9 A.M., December 6 1880, with NOTES to 3 P.M.

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** December - 49·445.
**Total Rainfall from Jan. 1st to** December 6 29·209.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | c | 87 | 66 | 0·29 |
| Tenterfild | g | 89 | 47 | 1·56 |
| Morse.... | . | .. | .. | .. |
| Gratton.. | g | 80 | 15 | 0·12 |
| Inverell.. | b | 87 | 63 | 0 |
| Bourke .. | c | 95 | 69 | 0 |
| Narranti | b | 92 | 73 | 0 |
| Armidale | g | 85 | 55 | 1·20 |
| Bendemir | b | 89 | 59 | 0·78 |
| Gunnedin | g | 79 | 67 | 0 |
| Coonabrn | g | 89 | 56 | 0·08 |
| P.Macquie | c | 76 | 68 | 0 |
| Murrundi | b | 82 | 61 | 0·25 |
| Cassilis. | b | 101 | 87 | 0 |
| Mus'br'ok | b | 86 | 66 | 0·21 |
| Dubbo... | c | 83 | 58 | 0 |
| Mudgee | b | 85 | 55 | 0·80 |
| Maitland. | r | 79 | 64 | 1·00 |
| Hill End. | b | 83 | 41 | 0·42 |
| Newcastle | b | 73 | 60 | 0 |
| Orange.. | b | 73 | 54 | 0 |
| Bathurst. | b | 81 | 45 | 0·34 |
| Condob'ln | b | 75 | 63 | 0 |
| MtVict'ria | b | 75 | 44 | 0·25 |
| Forbes... | b | 98 | 65 | 0 |
| SYDNEY.. | c | 72 | 64 | 0·39 |
| 13 66 | | E | | |
| Pictor | o | 79 | 66 | 0·25 |
| Wentw'th | b | 83 | 58 | 0 |
| Young... | b | 80 | 61 | 0 |
| Wollgo'ng | c | 72 | 61 | 0 |
| Moss Vale | g | 74 | 56 | 0·02 |
| Euston... | b | 86 | 59 | 0 |
| Goulburn | b | 72 | 46 | 0 |
| Wagga... | b | 85 | 46 | 0 |
| Cape Geo. | c | 72 | . | 0 |
| Queanb'n | b | 87 | 50 | 0 |
| Deniliq'in | b | 89 | 49 | 0 |
| Moruya.. | g | 72 | 54 | 0 |
| Kiandra.. | . | .. | .. | .. |
| Albury . | c | 87 | 48 | 0 |
| Bodalla. | g | 78 | 53 | 0 |
| Cooma... | c | 75 | 41 | 0 |
| Eden.... | b | 73 | 58 | 0 |
| Gabo Isl'd | c | 69 | 58 | 0 |




Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

14 29·90 R 80

CLOUDY GENERALLY

W 28 30·10 — 75

3 71 A 14 30·04F 70

60

8 61 Re

0 30·03 .. 75 A

8 62 M

0 62 P

CO

8 59 WP 13 60

Go 8 66

E 0 67

Ma 28 70

CG 28 65

Wg 14 72

S 10 70

N 5 72

PM 28 74

C 28 73

B 3 78

34 59 h. for
Example reads
Fine wind from N E 34
mls per hour, sea high
temperature 59 hail

**WIND SCALE.**
13-Lit brze
23-Mod. „
34-Fresh „
6-Strg gale
5-Whole „

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has
risen about ·11
on E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

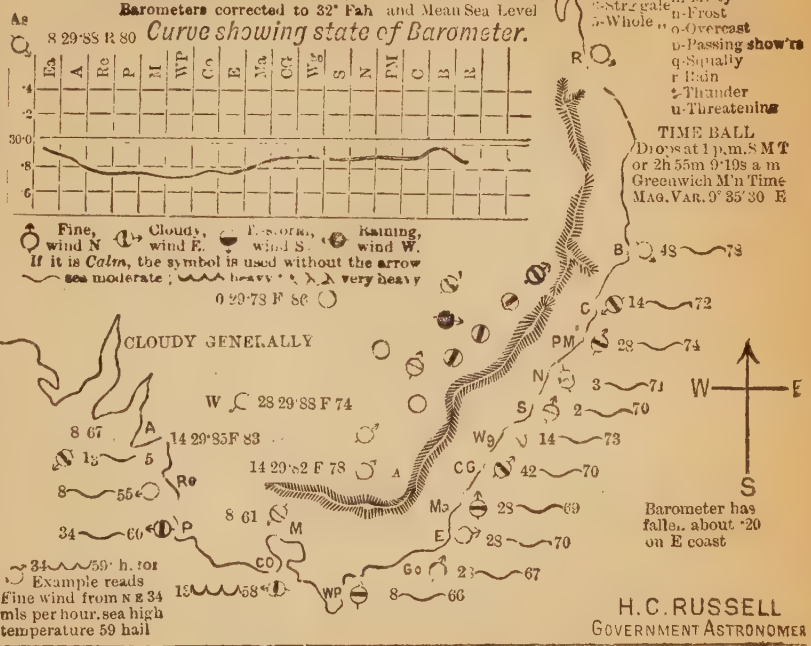
**COMPILED** from **TELEGRAMS** for 9 A.M., December 7 1880, with **NOTES** to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** December · 49·415.
**Total Rainfall from Jan. 1st to** December 7 29·209.
**Barometers corrected to 32° Fah** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | c | 84 | 65 | 0 |
| Tenterfild | c | 72 | 51 | 0 |
| Moree.... | g | 87 | 78 | 0·27 |
| Grafton.. | c | 77 | 16 | 0·05 |
| Inverell.. | b | 84 | 61 | 0 |
| Bourke .. | b | 95 | 71 | 0 |
| Narrabri | c | 89 | 63 | 0·53 |
| Armidale | r | 85 | 56 | 0·25 |
| Bendem'r | r | 89 | 63 | 0·11 |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | r | 89 | 60 | 0·84 |
| P.Macqrie | c | 77 | 66 | 0 |
| Murr'undi | r | 81 | 64 | 0·38 |
| Cassilis.. | r | 83 | 67 | 0·90 |
| Mus'br'ok | r | 91 | 61 | 0·09 |
| Dubbo... | c | 85 | 68 | 0·32 |
| Mudgee . | g | 85 | 64 | 0 |
| Maitland. | d | 83 | 67 | 0 |
| Hill End. | g | 75 | 62 | 0 |
| Newcastle | g | 76 | 60 | 0 |
| Orange.. | b | 73 | 54 | 0 |
| Bathurst. | c | 80 | 56 | 0 |
| Condob'ln | b | 74 | 62 | 0 |
| MtVict'ria | b | 70 | 53 | 0 |
| Forbes... | b | 96 | 67 | 0 |
| SYDNEY. . | c | 73 | 63 | 0 |
| 13 68 | | E | | |
| Pictor | b | 89 | 59 | 0 |
| Wentw'th | b | 92 | 61 | 0 |
| Young... | b | 83 | 66 | 0·05 |
| Wollgo'ng | b | 76 | 66 | 0 |
| Moss Vale | g | 76 | 58 | 0·09 |
| Euston... | b | 98 | 60 | 0 |
| Goulburn | r | 85 | 58 | 0·03 |
| Wagga... | b | 91 | 60 | 0 |
| Cape Geo. | g | 76 | | 0 |
| Queanb'n | b | 90 | 60 | 0 |
| Deniliq'in | b | 94 | 49 | 0 |
| Moruya.. | c | 72 | 59 | 0 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | b | 94 | 60 | 0 |
| Bodalla. | b | 78 | 56 | 0 |
| Cooma... | b | 85 | 49 | 0 |
| Eden.... | b | 71 | 62 | 0 |
| Gabo Isl'd | b | 71 | 62 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

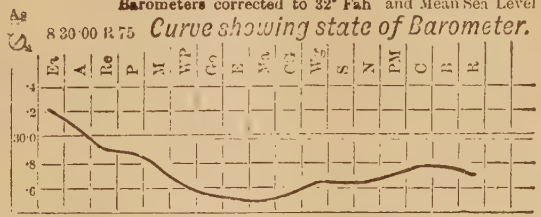
**COMPILED** from TELEGRAMS for 9 A.M., December 8 1880, with NOTES to 3 P.M.

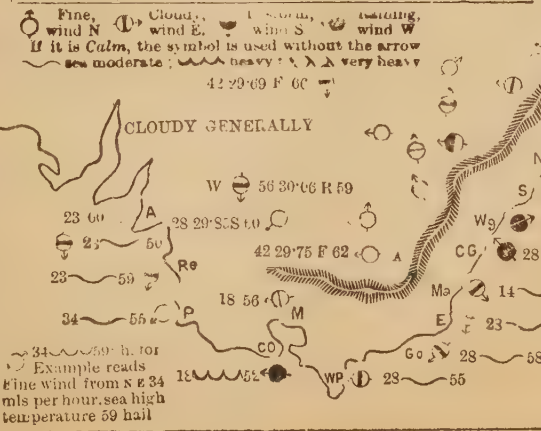
Sydney Observatory.

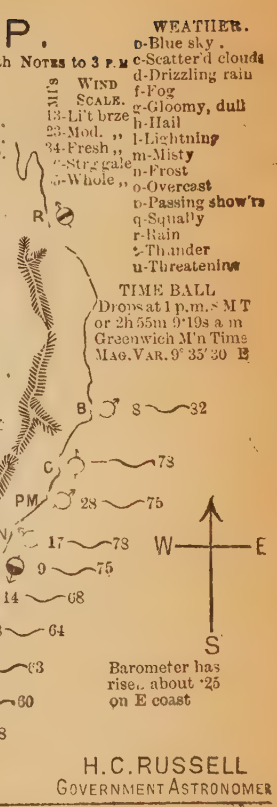
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481.
**Average for 21 years from Jan. 1st to** December 49·445.
**Total Rainfall from Jan. 1st to** December 8 29·209.
**Barometers corrected to 32° Fah** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 89 | 67 | 0 |
| Tenterfild | c | 72 | 53 | 0 |
| Moree.... | b | 77 | 73 | 0·57 |
| Grafton.. | b | 81 | 67 | 0 |
| Inverell.. | g | 74 | 62 | 0·30 |
| Bourke .. | c | 100 | 72 | 0 |
| Narrabri | c | 77 | 65 | 0·14 |
| Armidale | b | 85 | 51 | 0·10 |
| Bendem'r | b | 80 | 61 | 0·04 |
| Gunned'h | c | 82 | 51 | 0·29 |
| Coonab'rn | g | 71 | 61 | 0·39 |
| P.Macqrie | o | 78 | 66 | 0 |
| Murr'undi | b | 74 | 65 | 0·71 |
| Cassilis. | b | 84 | 57 | 0·32 |
| Mus'br'ok | g | 84 | 56 | 0·14 |
| Dubbo... | t | 83 | 69 | 0·22 |
| Mudgee . | g | 80 | 61 | 0 |
| Maitland. | b | 80 | 65 | 0·10 |
| Hill End. | b | 79 | 53 | 0 |
| Newcastle | b | 79 | 64 | 0·01 |
| Orange.. | c | 81 | 59 | 0·07 |
| Bathurst. | g | 83 | 61 | 0·66 |
| Condob'ln | c | 75 | 66 | 0 |
| MtVict'ria | r | 78 | 53 | 0 |
| Forbes... | b | 90 | 62 | 0 |
| SYDNEY. . | c | 77 | 66 | 0 |
| 13 62 | | E | | |
| Pictor | t | 86 | 59 | 0·18 |
| Wentw'th | b | 92 | 49 | 0 |
| Young... | g | 85 | 67 | 0·63 |
| Wollgo'ng | p | 79 | 68 | 0 |
| Moss Vale | r | 78 | 59 | 0·51 |
| Euston... | b | 98 | 51 | 0 |
| Goulburn | r | 86 | 52 | 0·72 |
| Wagga... | b | 94 | 58 | 0 |
| Cape Geo. | p | 76 | | 0 |
| Queanb'n | b | 84 | 62 | 0·13 |
| Deniliq'in | b | 90 | 47 | 0 |
| Moruya.. | g | 73 | 63 | 0 |
| Kiandra.. | c | 70 | 23 | 0 |
| Albury . | b | 95 | 60 | 0·04 |
| Bodalla. | b | 83 | 62 | 0 |
| Cooma... | b | 85 | 59 | 2·14 |
| Eden.... | g | 75 | 59 | 0·20 |
| Gabo Isl'd | g | 71 | 59 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., December 9 1880, with **NOTES** to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s E*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December 9 49·445.
**Total Rainfall from Jan. 1st to** December 9 29·418.
**Barometers corrected to 32° Fah** and Mean Sea Level

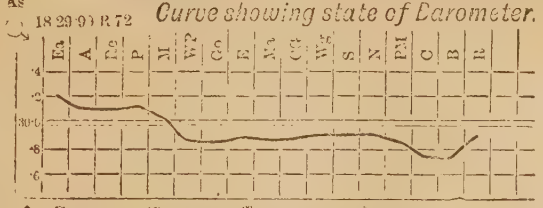
| Stations. | Wd. | Max. | Min. | Rain. |
|---|---|---|---|---|
| Casino. | c | 99 | 67 | 0·15 |
| Tenterfield | c | 82 | 49 | 0·49 |
| Moree.... | b | 87 | 63 | 0·37 |
| Grafton.. | c | 84 | 73 | 0 |
| Inverell.. | b | 79 | 53 | 0 |
| Bourke .. | b | 92 | 57 | 0 |
| Narrabri | b | 85 | 60 | 0·97 |
| Armidale | b | 85 | 51 | 0 |
| Denderah | b | 87 | 51 | 0·44 |
| Gunnedah | b | 92 | 44 | 0 |
| Coonabarabran | b | 85 | 49 | 0 |
| P. Macquarie | b | 81 | 60 | 0 |
| Murrurundi | b | 77 | 46 | 2·07 |
| Cassilis. | b | 87 | 44 | 0 |
| Muswellbrook | b | 89 | 51 | 0·15 |
| Dubbo... | b | 89 | 57 | 0 |
| Mudgee .. | b | 83 | 44 | 0·39 |
| Maitland. | b | 69 | 53 | 0·15 |
| Hill End. | b | 79 | 40 | 0 |
| Newcastle | b | 88 | 56 | 1·05 |
| Orange.. | c | 72 | 41 | 0·21 |
| Bathurst. | b | 73 | 40 | 0·09 |
| Condobolin | b | .. | .. | .. |
| Mt Victoria | b | 66 | 40 | 0 |
| Forbes... | b | 89 | 55 | 0 |
| SYDNEY. . | b | 77 | 54 | 0·21 |
| Picton | b | 85 | 48 | 0·06 |
| Wentworth | b | 72 | 45 | 0 |
| Young... | b | 75 | 51 | 0 |
| Wellington | b | 76 | 50 | 0·07 |
| Mossvale | b | 84 | 45 | 0·04 |
| Euston... | b | 73 | 42 | 0 |
| Goulburn | b | 76 | 40 | 0·61 |
| Wagga... | b | 80 | 40 | 0 |
| Albury .. | b | 85 | .. | 0·41 |
| Queanbeyan | .. | 78 | 47 | 0 |
| Deniliquin | b | 72 | 40 | 0 |
| Merriwa... | b | 70 | 48 | 0·42 |
| Kiandra... | . | .. | .. | .. |
| Albury . | b | 87 | 42 | 1·03 |
| Bodalla. | b | 74 | 41 | 0·54 |
| Cooma... | b | 75 | 34 | 0 |
| Eden.... | b | 67 | 49 | 0 |
| Cabo Is'd | g | 60 | 41 | 0 |

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r Rain
t-Thunder
u-Threatening

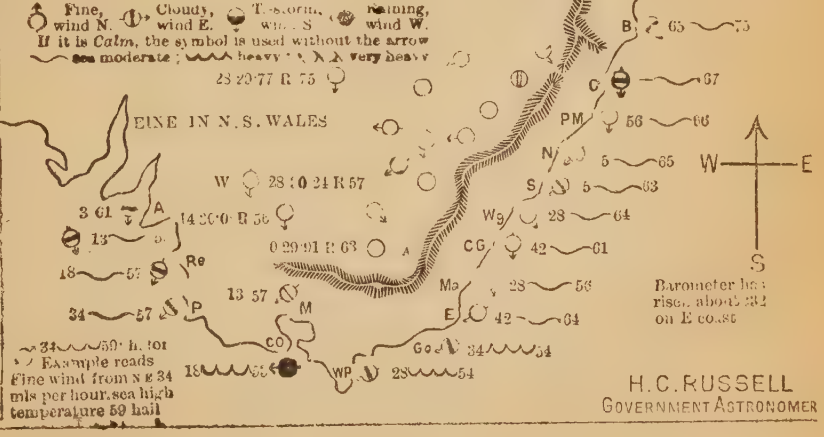
**WIND SCALE.**
1-Lt brze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

**TIME BALL**
Drops at 1 p.m. M T
or 2h 55m 9·1s a.m.
Greenwich Mn Time
MAG. VAR. 9° 35′ 30″ E

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
Sea moderate ; heavy ; very heavy




Example reads
Fine wind from N E 34 mls per hour, sea high temperature 59 hail

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., December 10 1880, with NOTES to 3 P.M.**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 21 years ..... 52·481
Average for 21 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to December 10 29·418.
Barometers corrected to 32° Fah and Mean Sea Level

| Stations. | Wd | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 81 | 61 | 0 |
| Tenterfild | b | 72 | 48 | 0 |
| Moree.... | b | 76 | 6[illegible] | 0 |
| Grafton.. | b | 80 | 62 | 0 |
| Inverell.. | b | 82 | 55 | 0 |
| Bourke .. | b | 85 | [illegible]7 | 0 |
| Narrabri | b | [illegible] | 57 | 0 |
| Armidale | g | 85 | 44 | 0 |
| Bendem'r | g | 72 | 48 | 0 |
| Gunned'b | b | 86 | 46 | 0 |
| Coonab'rn | b | 78 | 42 | 0 |
| P.Macqrie | c | 72 | [illegible]1 | 0 |
| Murr'undi | b | 75 | 55 | 0 |
| C ssilis.. | b | 92 | 50 | 0 |
| Mus'br'ok | b | 85 | 4[illegible] | 0 |
| Dubbo... | b | 78 | 57 | 0 |
| Mudgee . | b | 85 | 51 | 0 |
| Maitland. | b | 77 | 58 | 0 |
| Hill End. | b | 68 | 39 | 0 |
| Newcastle | b | 86 | 56 | 0 |
| Orange. | b | 64 | 39 | 0 |
| Bathurst. | b | 99 | 42 | 0 |
| Condob'ln | b | 68 | 58 | 0 |
| MtVict'ria | b | 69 | 43 | |
| Forbes... | b | 82 | 51 | 0 |
| SYDNEY . | b | 68 | 58 | 0 |
| 18 67 | | E | | |
| Pictor | b | 80 | 48 | 0 |
| Wentw'th | b | 72 | 48 | 0 |
| Young... | b | 71 | 49 | 0 |
| Wollgo'ng | b | 70 | 50 | 0 |
| Moss Vale | b | 87 | 47 | 0 |
| Euston... | b | 76 | 46 | 0 |
| Goulburn | b | 70 | 41 | 0 |
| Wagga... | b | 75 | 40 | 0 |
| Cape Geo. | b | 66 | | 0 |
| Queanb'n | b | 75 | 49 | 0 |
| Deniliq'in | b | 70 | 44 | 0 |
| Moruya.. | b | 68 | 51 | 0 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | c | 76 | 43 | 0 |
| Bodalla. | . | .. | .. | .. |
| Cooma... | b | 68 | 34 | 0 |
| Eden.... | b | 71 | 56 | 0 |
| Gabo Isl'd | b | 61 | 49 | 0 |

*Curve showing state of Barometer.*

8 30·07 R 78

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

·4 ·2 30·0 ·8 ·6

Fine, wind N — Cloudy, wind E. — T-storm, wind S — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

23 29·95 R 73

FINE IN N.S. WALES

W 28 30·20 F 61

3 Go A 14 30·04F 59

13 57 Re

8 59

28 29·97 R 63 A

13 57 M

34 59 P

34 59 h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

40 56 CO WP 34 53

Go 13 61

E 14 71

Ma 28 64

CG 28 68

Wg 14 70

S 5 66

N 6 70

PM 0 70

C 14 68

B 56 73

R

Mt's WIND SCALE.
13-Lit brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. MT or 2h 55m 9·19s a.m. Greenwich M Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has fallen about ·05 on coast

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

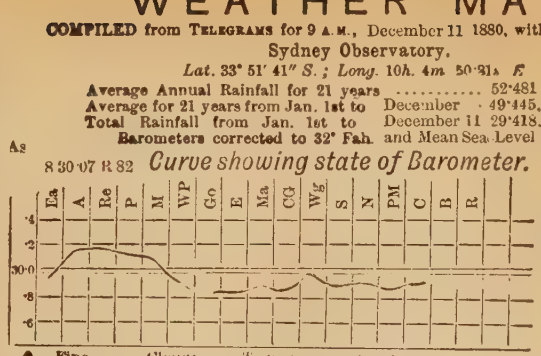
**COMPILED** from **TELEGRAMS** for 9 A.M., December 11 1880, with **NOTES** to 3 P.M

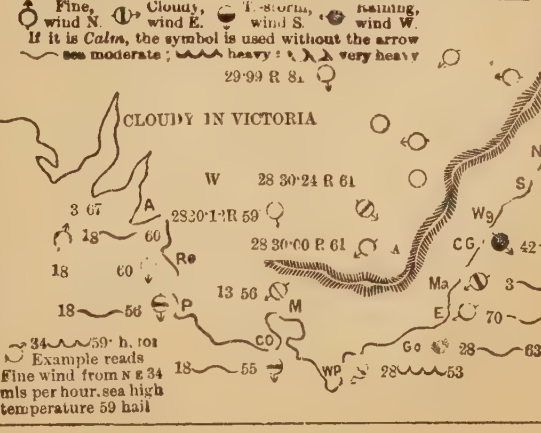
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·31*s E.*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to December** ... 49·445.
**Total Rainfall from Jan. 1st to December 11** 29·418.
**Barometers corrected to 32° Fah. and Mean Sea Level**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 89 | 58 | 0 |
| Tenterfield | b | 72 | 37 | 0 |
| Moree.... | b | 78 | 68 | 0 |
| Grafton.. | b | 85 | 60 | 0 |
| Inverell.. | b | 83 | 50 | 0 |
| Bourke .. | b | 90 | 59 | 0 |
| Narrabri | b | 85 | 58 | 0 |
| Armidale | b | 85 | 45 | 0 |
| Bendem'r | b | 79 | 45 | 0 |
| Gunned'h | o | 92 | 42 | 0 |
| Coonab'rn | b | 81 | 48 | 0 |
| P.Macqrie | b | 76 | 58 | 0·06 |
| Murr'undi | b | 76 | 43 | 0 |
| Cassilis.. | b | 89 | 46 | 0 |
| Mus'br'ok | b | 85 | 48 | 0 |
| Dubbo... | b | 80 | 55 | 0 |
| Mudgee .. | b | 82 | 50 | 0 |
| Maitland. | b | 84 | 60 | 0 |
| Hill End. | b | 69 | 43 | 0 |
| Newcastle | b | 86 | 57 | 0 |
| Orange.. | b | 68 | 47 | 0 |
| Bathurst. | b | 71 | 45 | 0 |
| Condob'ln | b | 68 | 58 | 0 |
| MtVict'ria | b | 72 | 43 | |
| Forbes... | b | 84 | 53 | 0 |
| SYDNEY .. | b | 71 | 60 | 0 |
| [illegible] | | E | | |
| Picton | b | 90 | 45 | 0 |
| Wentw'th | b | 80 | 48 | 0 |
| Young... | b | 72 | 49 | 0 |
| Wollgo'ng | o | 75 | 57 | 0 |
| Moss Vale | b | 71 | 49 | 0 |
| Euston... | b | 80 | 52 | 0 |
| Goulburn | b | 72 | 43 | 0 |
| Wagga... | b | 80 | 44 | 0 |
| Cape Geo. | u | 73 | . | 0·03 |
| Queanb'n | b | 79 | 47 | 0 |
| Deniliq'in | b | 75 | 52 | 0 |
| Moruya.. | b | 69 | 50 | 0·06 |
| Kiandra.. | b | 60 | 21 | . |
| Albury . | b | 79 | 47 | 0 |
| Bodalla. | o | 75 | 51 | .. |
| Cooma... | g | 72 | 42 | 0 |
| Eden.... | b | 72 | 50 | 0·56 |
| Gabo Isl'd | b | 62 | 50 | 0·32 |




**WIND SCALE.**
0-Calm
1-Li't brze
2-Mod. ,,
3-Fresh ,,
6-Strg gale
5-Whole ,,

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

**TIME BALL**
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W — E — S

Barometer has risen about ·12 on S. coast

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M.,** December 13 1880, with **NOTES to 3 P.M.**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December . . 49·445.
**Total Rainfall from Jan. 1st to** December 13 29·425.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | c | 89 | 62 | 0 |
| Tenterfild | b | 81 | 47 | 0 |
| Moree.... | b | 84 | 73 | 0 |
| Grafton.. | b | 82 | 60 | 0 |
| Inverell.. | b | 82 | 50 | 0 |
| Bourke .. | b | 99 | 57 | 0 |
| Narrabri | b | 88 | 66 | 0 |
| Armidale | b | 85 | 50 | 0 |
| Bendemir | b | 84 | 43 | 0 |
| Gunned'h | b | 94 | 46 | 0 |
| Coonab'ru | b | 86 | 47 | 0 |
| P.Macqrie | b | 74 | 62 | 0 |
| Murr'undi | b | 76 | 64 | 0 |
| Cassilis. | b | 82 | 44 | 0 |
| Mus'br'ok | b | 88 | 53 | 0 |
| Dubbo... | b | 89 | 64 | 0 |
| Mudgee . | b | 88 | 50 | 0 |
| Maitland. | b | 82 | 56 | 0 |
| Hill End. | b | 69 | 39 | 0 |
| Newcastle | b | 79 | 58 | 0 |
| Orange.. | b | 72 | 43 | 0 |
| Bathurst. | b | 73 | 42 | 0 |
| Condob'ln | | .. | .. | .. |
| MtVict'ria | b | 76 | 49 | 0 |
| Forbes... | b | 83 | 53 | 0 |
| SYDNEY. . | b | 77 | 59 | 0 |
| 13 69 | | E | | |
| Pictor | b | 78 | 58 | 0 |
| Wentw'th | b | 93 | 51 | 0 |
| Young... | b | 78 | 51 | 0 |
| Wolgo'ng | b | 77 | 59 | 0 |
| Moss Vale | b | 76 | 51 | 0 |
| Euston... | b | 100 | 55 | 0 |
| Goulburn | b | 78 | 43 | 0 |
| Wagga... | b | 82 | 39 | 0 |
| Cape Geo. | b | 74 | | 0 |
| Queanb'n | b | 78 | 48 | 0 |
| Deniliq'in | b | 84 | 46 | 0 |
| Moruya.. | b | 68 | 52 | 0 |
| Kiandra.. | . | .. | .. | . |
| Albury.. | b | 84 | 43 | 0 |
| Bodalla. | b | 84 | 47 | 0 |
| Cooma... | c | 78 | 46 | 0 |
| Eden.... | b | 74 | 54 | 0 |
| Gabo Isl'd | g | 65 | 53 | 0 |

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

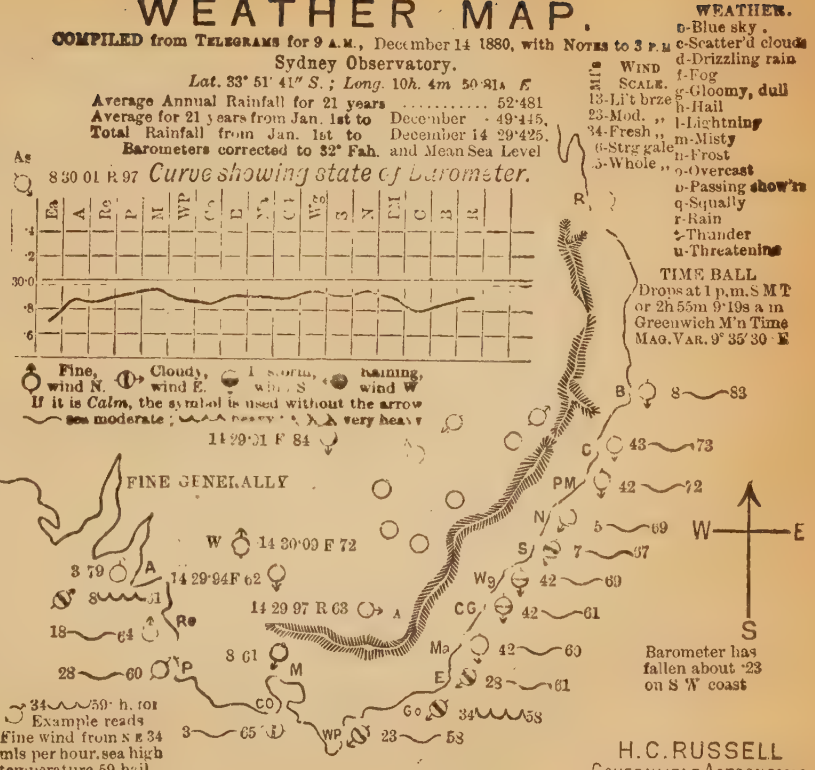
**COMPILED from TELEGRAMS for 9 A.M.,** December 14 1880, **with NOTES to 3 P.M.**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December · 49·445.
**Total Rainfall from Jan. 1st to** December 14 29·425.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 95 | 65 | 0 |
| Tenterfild | b | 80 | 44 | 0 |
| Moree.... | b | 87 | 70 | 0 |
| Grafton.. | b | 90 | 58 | 0 |
| Inverell.. | b | 80 | 50 | 0 |
| Bourke .. | b | 103 | 64 | 0 |
| Narrabri | b | 94 | 62 | 0 |
| Armidale | b | 81 | 50 | 0 |
| Bendem'r | b | 86 | 47 | 0 |
| Gunned'h | b | 100 | 46 | 0 |
| Coonab'rn | b | 91 | 55 | 0 |
| P.Macqrie | b | 83 | 66 | 0 |
| Murr'undi | b | 87 | 63 | 0 |
| Cassilis.. | b | 93 | 54 | 0 |
| Mus'br'ok | b | 99 | 59 | 0 |
| Dubbo... | b | 91 | 67 | 0 |
| Mudgee.. | b | 9[illegible] | 56 | 0 |
| Maitland. | c | 92 | 67 | 0 |
| Hill End. | b | 79 | 49 | 0 |
| Newcastle | b | 94 | 64 | 0 |
| Orange.. | b | 79 | 35 | 0 |
| Bathurst. | b | 83 | 48 | 0 |
| Condob'ln | b | 74 | 70 | 0 |
| MtVict'ria | b | 79 | 46 | 0 |
| Forbes... | b | 82 | 59 | 0 |
| SYDNEY. . | c | 88 | 60 | 0 |
| 23 99 | | E | | |
| Pictor | b | 90 | 52 | 0 |
| Wentw'th | b | 85 | 55 | 0 |
| Young... | b | 78 | 52 | 0 |
| Wollgo'ng | c | 88 | 56 | 0 |
| Moss Vale | b | 79 | 52 | 0 |
| Euston... | b | 86 | 55 | 0 |
| Goulburn | b | 81 | 44 | 0 |
| Wagga... | b | 85 | 54 | 0 |
| Cape Geo. | c | 69 | | 0 |
| Queanb'n | b | 85 | 50 | 0 |
| Deniliq'in | b | 79 | 52 | 0 |
| Moruya.. | b | 68 | 52 | 0 |
| Kiandra.. | b | 60 | 21 | 0 |
| Albury . | b | 81 | 44 | 0 |
| Bodalla. | b | 73 | 45 | 0 |
| Cooma... | b | 72 | 42 | 0 |
| Eden.... | g | 76 | 55 | 0 |
| Gabo Isl'd | g | 65 | 40 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., December 15 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ S ; *Long* 10h. 4m 50·91s E

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to December** ... 49·445.
**Total Rainfall from Jan. 1st to December 15** 29·425.
**Barometers corrected to 32° Fah** ... Sea Level

| Stations. | W | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | . | .. | .. | .. |
| Tenterfild | . | .. | .. | . |
| Moree.... | b | 87 73 | | 0 |
| Grafton.. | | .. | .. | .. |
| Inverell.. | b | 83 49 | | 0 |
| Bourke .. | . | .. | .. | .. |
| Narrabri. | b | 93 62 | | 0 |
| Armidale | . | .. | . | .. |
| Bendem'r | . | .. | .. | .. |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 90 47 | | 0 |
| P.Macqrie | . | .. | .. | . |
| Murr'undi | b | 83 59 | | 0 |
| Cassins. | b | 101 54 | | 0 |
| Mus'br'ok | b | 91 55 | | 0 |
| Dubbo... | c | 87 64 | | 0 |
| Mudgee | g | 92 56 | | 0 |
| Maitland. | . | .. | .. | .. |
| Hill End. | g | 80 51 | | 0 |
| Newcastle | . | .. | .. | .. |
| Orange. | g | 77 43 | | 0 |
| Bathurst. | c | 82 48 | | 0 |
| Condob'in | b | 78 65 | | 0 |
| MtVict'ria | b | 81 43 | | 0 |
| Forbes... | b | 94 65 | | 0 |
| SYDNEY . | c | 70 61 | | 0 |
| 18 66 | | E | | |
| Pictor | b | 77 52 | | 0 |
| Wentw'th | b | 95 71 | | 0 |
| Young... | b | 80 58 | | 0 |
| Wodgo'ng | c | 74 53 | | 0 |
| Moss Vale | g | 77 51 | | 0 |
| Euston... | b | 96 68 | | 0 |
| Goulburn | b | 82 48 | | 0 |
| Wagga... | b | 87 56 | | 0 |
| Cape Geo. | b | 69 | | 0 |
| Queanb'n | b | 87 57 | | 0 |
| Deniliq'in | g | 83 62 | | 0 |
| Moruya.. | g | 68 57 | | 0 |
| Kiandra.. | b | 67 30 | | 0 |
| Albury . | c | 90 57 | | 0 |
| Bodalla. | b | 74 53 | | 0 |
| Cooma... | c | 79 51 | | 0 |
| Eden.... | g | 70 56 | | 0 |
| Gabo Isl'd | g | 63 55 | | 0 |

## Curve showing state of Barometer.

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

·4 ·2 30·0 ·8 ·6

Fine, wind N — Cloudy, wind E — T-storm, wind S — Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

**WEATHER.**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
13-Lit brze
23-Mod. „
34-Fresh „
-Strg gale
-Whole „

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

CLOUDY GENERALLY

W 42 29·71 F 85
23 63 A
28 29·58 F 80
34 56
0 29·68 F 74 A
18 59 Re
23 61
28 58 P
M
CO
34 59 h. 101
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail
13 57
WP
18 70
Go 28 62
E 23 63
Ma 14 65
CG 42 69
Wg 14 75
S 8 68
N
PM
C
B
R

W E S

Barometer has fallen about ·31 on S E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., December 16 1880, with Notes to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50 81*s* E

| | |
|---|---|
| Average Annual Rainfall for 21 years | ........... 52·481 |
| Average for 21 years from Jan. 1st to | December 16 49·445. |
| Total Rainfall from Jan. 1st to | December 16 29·425. |
| **Barometers corrected to 32° Fah.** | and Mean Sea Level |

## *Curve showing state of Barometer.*

Fine, wind N · Cloudy, wind E. · T.-storm, wind S. · **Raining, wind W.**

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

| Stations. | Wthr | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 96 | 74 | 0 |
| Tenterfild | c | 87 | .. | 0 |
| Moree.... | . | | | . |
| Grafton.. | . | | | |
| Inverell.. | . | | | .. |
| Bourke .. | . | . | . | |
| Narrabri | . | | . | .. |
| Armidale | c | 85 | 58 | 0 |
| Bendem'r | b | 84 | 48 | 0 |
| Gunned'h | . | . | . | |
| Coonab'rn | c | 95 | 61 | 0 |
| P.Macqrie | g | 81 | 68 | 0 |
| Murr'undi | . | .. | .. | .. |
| Cassilis.. | c | 104 | 62 | 0 |
| Mus'br'ok | | .. | .. | . |
| Dubbo... | . | .. | .. | |
| Mudgee.. | g | 95 | 61 | 0 |
| Maitland. | c | 97 | 71 | 0 |
| Hill End. | b | 88 | 45 | 0 |
| Newcastle | g | 92 | 55 | 0 |
| Orange.. | b | 87 | 47 | 0 |
| Bathurst. | . | .. | .. | |
| Condob'ln | b | 70 | 63 | 0 |
| MtVict'ria | b | 88 | 48 | 0 |
| Forbes... | b | 98 | 55 | 0 |
| SYDNEY... | b | 83 | 65 | 0 |
| 8 67 | | E | | |
| Picton | b | 97 | 60 | 0 |
| Wentw'th | g | 87 | 51 | 0 |
| Young... | c | 91 | 54 | 0 |
| Wollgo'ng | b | 79 | 62 | 0 |
| Moss Vale | b | 90 | 50 | 0 |
| Euston... | c | 95 | 41 | 0 |
| Goulburn | b | 93 | 47 | 0 |
| Wagga... | c | 96 | 43 | 0 |
| Cape Geo. | b | 75 | . | 0 |
| Queanb'n | b | 95 | 50 | 0 |
| Deniliq'in | b | 89 | 45 | 0 |
| Moruya.. | b | 75 | 53 | 0 |
| Kiandra.. | b | 70 | 25 | 0 |
| Albury.. | c | 80 | 46 | 0·15 |
| Bodalla.. | . | . | .. | .. |
| Cooma... | b | 87 | 42 | 0·07 |
| Eden.... | b | 72 | 51 | 0·20 |
| Gabo Isl'd | b | 67 | 57 | 0·26 |

**WEATHER.**
- b-Blue sky.
- c-Scatter'd clouds
- d-Drizzling rain
- f-Fog
- g-Gloomy, dull
- h-Hail
- l Lightning
- m-Misty
- n-Frost
- o-Overcast
- p-Passing show'rs
- q-Squally
- r-Rain
- t-Thunder
- u-Threatening

WIND SCALE.
- Lt brze
- Mod. "
- Fresh "
- Str'g gale
- 5-Whole "

TIME BALL

Drops at 1 p.m. S M T or 2h 55m 9·19s a m Greenwich M'n Time

MAG. VAR. 9° 35′ 30 E

Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

**Barometer has risen about ·20 on S coast**

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A M, December 17 1880 with NOTES to 3 P M

Sydney Observatory.

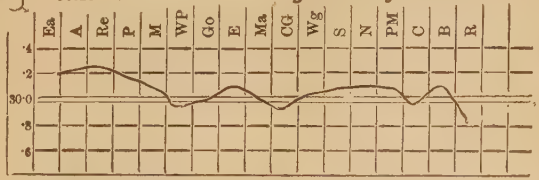
*Lat.* 33° 51′ 41″ *S.*; *Long* 10h 4m 50·[illegible] *E*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December 29·445.
**Total Rainfall from Jan. 1st to** December 17 29·425.
**Barometers corrected to 32° Fah** and Mean Sea Level

| Stations. | Wtl | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 90 | 63 | 0 |
| Tenterfild | b | 87 | 51 | 0 |
| Moree.... | b | 85 | 72 | |
| Grafton.. | b | 88 | 64 | 0 |
| Inverell.. | b | 72 | 53 | 0 |
| Bourke .. | b | 87 | 63 | 0 |
| Narrabri | b | 96 | 64 | 0 |
| Armidale | b | 85 | 49 | 0 |
| Bendem'r | b | 83 | 43 | 0 |
| Gunned'h | b | 93 | 44 | 0 |
| Coonab'rn | b | 83 | 45 | 0 |
| P.Macqrie | g | 76 | 64 | 0·06 |
| Murr'undi | b | .. | .. | .. |
| Cassilis.. | b | 90 | 51 | 0 |
| Mus'br'ok | b | 94 | 55 | 0 |
| Dubbo... | b | 82 | 61 | 0 |
| Mudgee.. | b | 82 | 52 | 0 |
| Maitland. | c | 89 | 65 | 0 |
| Hill End. | b | 82 | 50 | 0 |
| Newcastle | b | 90 | 63 | 0 |
| Orange.. | b | 70 | 43 | 0 |
| Bathurst. | b | 73 | 42 | .. |
| Condob'ln | b | 68 | 61 | 0 |
| MtVict'ria | b | 73 | 46 | 0 |
| Forbes... | b | 84 | 53 | 0 |
| SYDNEY... | b | 78 | 58 | 0 |
| 0 80 | | E | | |
| Pictor | b | 83 | 50 | 0 |
| Wentw'th | b | 76 | 49 | 0 |
| Young... | b | 74 | 51 | 0 |
| Wollgo'ng | b | 82 | 51 | 0 |
| Moss Vale | b | 71 | 48 | 0 |
| Euston... | b | 77 | 46 | 0 |
| Goulburn | b | 70 | 41 | 0 |
| Wagga... | b | 77 | 41 | 0 |
| Cape Geo. | b | 78 | .. | 0 |
| Queanb'n | b | 75 | 47 | 0 |
| Deniliq'in | b | 70 | 46 | 0 |
| Moruya.. | b | 72 | 50 | 0 |
| Kiandra.. | b | 53 | 46 | 0 |
| Albury.. | b | 74 | 44 | 0·11 |
| Bodalla.. | b | 78 | 44 | .. |
| Cooma... | b | 68 | 36 | 0 |
| Eden.... | c | 74 | 53 | 0 |
| Gabo Isl'd | b | 61 | 44 | 0 |

8 30.12 R 8[illegible]

## *Curve showing state of Barometer.*

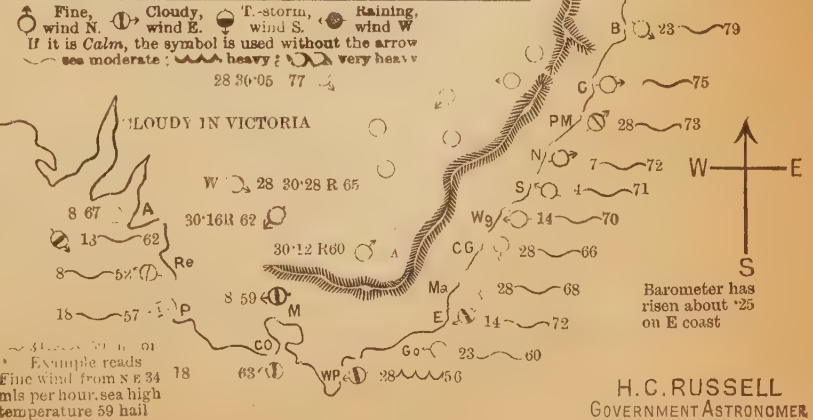



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

28 30·05 77




Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
Lit brze
Mod. ,,
Fresh ,,
Strg gale
Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

Barometer has risen about ·25 on E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M.,** December 18 1880, with NOTES to 3 P.M.

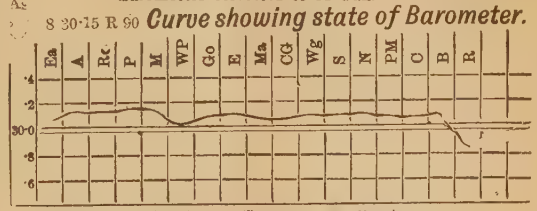
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·21*s*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December 49·445.
**Total Rainfall from Jan. 1st to** December 18 29·425.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 86 | 56 | 0 |
| Tenterfild | b | 87 | 51 | 0 |
| Moree.... | b | 86 | 76 | 0 |
| Grafton.. | g | 90 | 60 | 0 |
| Inverell.. | b | 85 | 62 | 0 |
| Bourke .. | b | 94 | 65 | 0 |
| Narrabri | b | 92 | 65 | 0 |
| Armidale | b | 82 | 59 | 0 |
| Bendem'r | b | 85 | 55 | 0 |
| Gunned'h | c | 97 | 69 | 0 |
| Coonab'rn | g | 88 | 45 | 0 |
| P.Macqrie | c | 78 | 67 | 0 |
| Murr'undi | o | 84 | 60 | 0 |
| Cassilis.. | b | 92 | 54 | 0 |
| Mus'br'ok | b | 93 | 60 | 0 |
| Dubbo... | c | 84 | 60 | 0 |
| Mudgee . | g | 91 | 60 | 0 |
| Maitland. | c | 86 | 67 | 0 |
| Hill End. | b | 75 | 49 | 0 |
| Newcastle | g | 82 | 64 | 0 |
| Orange.. | b | 74 | 47 | 0 |
| Bathurst. | c | 79 | 19 | 0 |
| Condob'ln | | .. | .. | .. |
| MtVict'ria | b | 80 | 60 | 0 |
| Forbes... | c | 83 | 59 | 0 |
| SYDNEY... | c | 76 | 63 | 0·02 |
| 0 79 | | E | | |
| Pictor | o | 85 | 59 | 0 |
| Wentw'th | b | 85 | 55 | 0 |
| Young... | g | 77 | 53 | 0 |
| Wollgo'ng | c | 73 | 61 | 0 |
| Moss Vale | b | 79 | 56 | 0 |
| Euston... | b | 88 | 54 | 0 |
| Goulburn | b | 79 | 55 | 0 |
| Wagga... | b | 83 | 44 | 0 |
| Cape Geo. | g | 69 | . | 0 |
| Queanb'n | b | 85 | 58 | 0 |
| Deniliq'in | b | 82 | 53 | 0 |
| Moruya.. | . | .. | .. | .. |
| Kiandra.. | c | 66 | 50 | 0 |
| Albury.. | b | 84 | 47 | 0 |
| Bodalla.. | . | .. | .. | .. |
| Cooma... | b | 81 | 46 | 0 |
| Eden.... | c | 66 | 56 | 0 |
| Gabo Isl'd | . | .. | .. | .. |

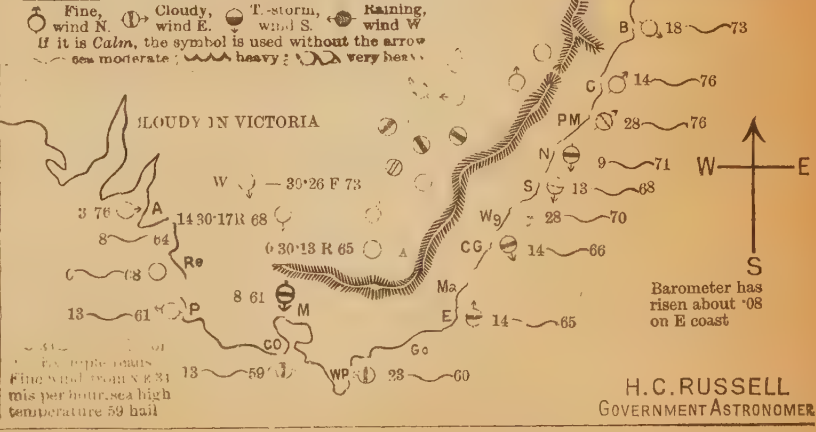
8 30·15 R 90 ***Curve showing state of Barometer.***




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy




Fine wind from N E 31 mis per hour, sea high temperature 59 hail

WIND SCALE.
Lt brze
Mod. ,,
Fresh ,,
Strg gale
Whole ,,

**WEATHER.**
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

Barometer has risen about ·08 on E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from Telegrams for 9 A.M., December 2[illegible], 1880, with Notes to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s E*

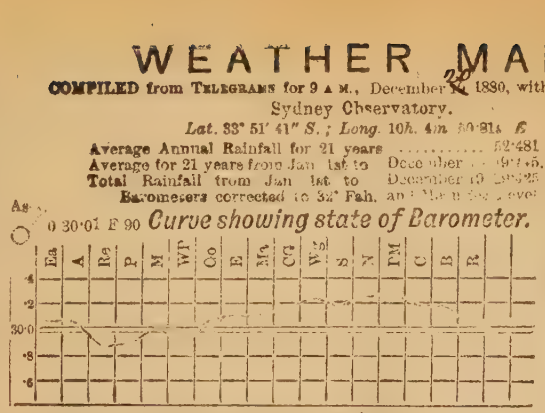
Average Annual Rainfall for 21 years ..... 52·481

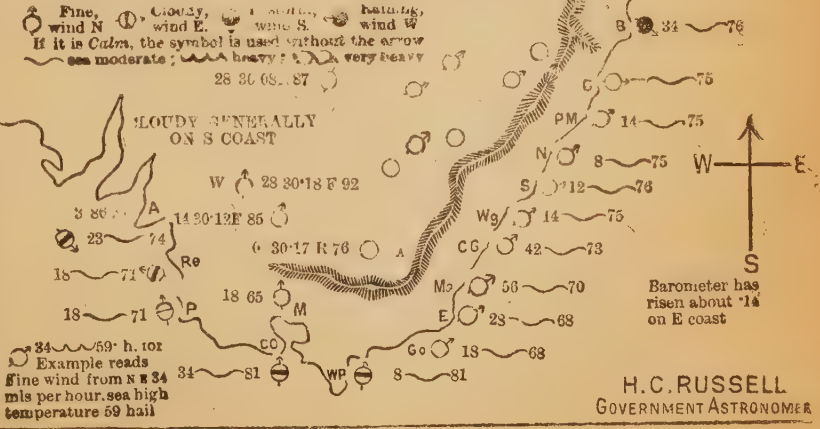
Average for 21 years from Jan 1st to December [illegible]

Total Rainfall from Jan 1st to December [illegible]

Barometers corrected to 32° Fah. and Mean [illegible]

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 86 | 53 | 0 |
| Tenterfild | b | 83 | 49 | 0 |
| Moree.... | b | 88 | 74 | 0 |
| Grafton.. | b | 86 | 62 | 0 |
| Inverell.. | b | 84 | 55 | 0 |
| Bourke .. | b | 103 | 73 | 0 |
| Narrabri | b | 94 | 68 | 0·10 |
| Armidale | b | 80 | 56 | 0 |
| Bendem'r | b | 89 | 50 | 0 |
| Gunned'h | b | 102 | 56 | 0 |
| Coonab'rn | b | 94 | 56 | 0 |
| P.Macgrie | b | 80 | 65 | 0 |
| Murr'undi | b | 86 | 65 | 0 |
| Cassilis. | b | 94 | 64 | 0 |
| Mus'br'ok | b | 91 | 58 | 0 |
| Dubbo... | b | 91 | 66 | 0 |
| Mudgee | b | 93 | 62 | 0 |
| Maitland. | b | 86 | 66 | 0 |
| Hill End. | b | 82 | 51 | 0 |
| Newcastle | b | 82 | 63 | 0 |
| Orange.. | b | 83 | 54 | 0 |
| Bathurst. | b | 87 | 51 | 0 |
| Condob'lin | b | 89 | 65 | 0 |
| MtVict'ria | b | 84 | 50 | 0 |
| Forbes... | b | 89 | 62 | 0 |
| Sydney.. | b | 77 | 64 | 0 |
| [illegible] | b | 86 | 59 | 0 |
| Wentw'th | b | 101 | 64 | 0 |
| Young... | b | 86 | 61 | 0 |
| Wellington | b | 80 | 53 | 0 |
| Moss Vale | b | 78 | 58 | 0 |
| Euston... | b | 95 | 65 | 0 |
| Goulburn | b | 89 | 49 | 0 |
| Wagga... | b | 90 | 16 | 0 |
| Cape Geo. | b | 76 | | 0 |
| Queanb'n | b | 94 | 56 | 0 |
| Deniliq'in | b | 97 | 57 | 0 |
| Moruya.. | b | 73 | 61 | 0 |
| Kiandra.. | b | 76 | 50 | 0 |
| Albury... | b | 98 | 49 | 0 |
| Bodalla.. | b | 78 | 55 | 0 |
| Cooma... | o | 85 | 46 | 0 |
| Eden.... | b | 78 | 62 | 0 |
| Gabo Is'd | b | 71 | 62 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., December 21 1880, with **NOTES** to 3 P.M.

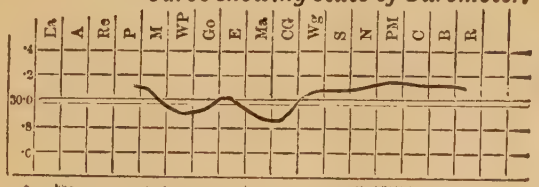
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481
Average for 21 years from Jan. 1st to December 49·445.
Total Rainfall from Jan. 1st to December 21 29·425.
Barometers corrected to 32° Fah and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 84 | 53 | 0 |
| Tenterfild | b | 85 | 45 | 0 |
| Moree.... | b | 85 | 76 | 0 |
| Grafton.. | b | 82 | 59 | 0 |
| Inverell.. | b | 82 | 55 | 0 |
| Bourke .. | b | 103 | 72 | 0 |
| Narrabri | b | 91 | 67 | 0 |
| Armidale | b | 80 | 55 | 0 |
| Bendem'r | b | 83 | 52 | 0 |
| Gunned'h | b | 100 | 55 | 0 |
| Coonab'rn | b | 92 | 55 | 0 |
| P.Macqrie | b | 80 | 62 | 0 |
| Murr'undi | b | 88 | 68 | 0 |
| Cassilis.. | b | 100 | 56 | 0 |
| Mus'br'ok | b | 99 | 60 | 0 |
| Dubbo... | b | 95 | 69 | 0 |
| Mudgee . | b | 97 | 47 | 0 |
| Maitland. | b | 92 | 65 | 0 |
| Hill End. | b | 85 | 51 | 0 |
| Newcastle | b | 82 | 63 | 0 |
| Orange.. | g | 85 | 55 | 0 |
| Bathurst. | c | 88 | 55 | 0 |
| Condob'ln | b | 84 | 64 | 0 |
| MtVict'ria | b | 89 | 59 | 0 |
| Forbes... | c | 91 | 59 | 0 |
| SYDNEY. . | cf | 78 | 66 | 0 |
| 8 68 | | E | | |
| Pictor | b | 91 | 56 | 0 |
| Wentw'th | b | 110 | 70 | 0 |
| Young... | g | 89 | 65 | 0 |
| Wollgo'ng | g | 80 | 63 | 0 |
| Moss Vale | b | 88 | 59 | 0 |
| Euston... | . | .. | .. | .. |
| Goulburn | b | 95 | 54 | 0 |
| Wagga... | g | 100 | 62 | 0 |
| Cape Geo. | b | 76 | | 0 |
| Queanb'n | b | 97 | 64 | 0 |
| Deniliq'in | | .. | . | .. |
| Moruya.. | b | 72 | 69 | 0 |
| Kiandra.. | g | 73 | 49 | 0 |
| Albury . | c | 1 2 | 66 | 0 |
| Bodalla. | . | . | .. | .. |
| Cooma... | b | 93 | 50 | 0 |
| Eden.... | b | 80 | 62 | 0 |
| Gabo Isl'd | b | 73 | 64 | 0 |

## *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

**WEATHER**
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
13-Li't brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

**TIME BALL**
Drops at 1 p.m. S M T or 2h 55m 9·19s a m Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

Barometer has fallen about ·25 on S E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., December 22 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 21 years ..... 52·481
Average for 21 years from Jan 1st to December 22 49·445.
Total Rainfall from Jan. 1st to December 22 29·225.
Barometers corrected to 32° Fah and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 85 | 51 | 0 |
| Tenterfild | b | 79 | 48 | 0 |
| Moree.... | b | 87 | 77 | 0 |
| Grafton.. | b | 85 | 60 | 0 |
| Inverell.. | b | 80 | 57 | 0 |
| Bourke .. | b | 102 | 75 | 0 |
| Narrabri | b | 93 | 72 | 0 |
| Armidale | b | 82 | 55 | 0 |
| Bendem'r | b | 96 | 50 | 0 |
| Gunned'h | c | 104 | 55 | 0 |
| Coonab'rn | b | 95 | 55 | 0 |
| P.Macqrie | b | 80 | 62 | 0 |
| Murr'undi | b | 94 | 64 | 0 |
| Cassilis.. | b | 93 | 65 | 0 |
| Mus'br'ok | b | 105 | 64 | 0 |
| Dubbo... | b | 94 | 67 | 0 |
| Mudgee . | b | 98 | 53 | 0 |
| Maitland. | b | 95 | 68 | 0 |
| Hill End. | b | 85 | 51 | 0 |
| Newcastle | b | 82 | 65 | 0 |
| Orange.. | b | 86 | 56 | 0 |
| Bathurst. | b | 90 | 57 | 0 |
| Condob'ln | b | 84 | 64 | 0 |
| Mt Vict'ria | b | 91 | 56 | 0 |
| Forbes... | b | 96 | 65 | 0 |
| SYDNEY. . | b | 81 | 66 | 0 |
| 13 86 | | E | | |
| Pictor | b | 95 | 59 | 0 |
| Wentw'th | b | 110 | 68 | 0 |
| Young... | b | 89 | 62 | 0 |
| Wollgo'ng | b | 80 | 60 | 0 |
| Moss Vale | b | 91 | 57 | 0 12 |
| Euston... | c | 114 | 68 | 0 |
| Goulburn | b | 94 | 54 | 0·13 |
| Wagga... | b | 102 | 54 | 0·74 |
| Cape Geo. | b | 70 | | 0 |
| Queanb'n | b | 98 | 60 | 0·08 |
| Deniliq'in | b | 110 | 68 | 0 |
| Moruya.. | b | 73 | .. | 0 |
| Kiandra.. | b | 73 | 50 | 0 |
| Albury.. | b | 1 5 | 67 | 0 |
| Bodalla. | b | 96 | 58 | 0 |
| Cooma... | b | 95 | 49 | 0·03 |
| Eden.... | g | 81 | 59 | 0 |
| Gabo Isl'd | g | 70 | 58 | 0 |

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from **TELEGRAMS** for 9 A.M., December 23 1880, with **NOTES** to 3 P.M.

**Sydney Observatory.**

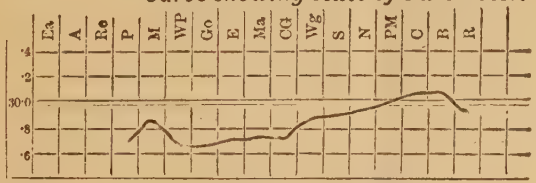
*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E.*

**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December · 49·445.
**Total Rainfall from Jan. 1st to** December 23 29·445.
**Barometers corrected to 32° Fah** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | b | 86 51 | | 0 |
| Tenterfild | b | 79 51 | | 0 |
| Moree.... | b | 88 77 | | 0 |
| Grafton.. | b | 92 62 | | 0 |
| Inverell.. | b | 85 63 | | 0 |
| Bourke .. | b | 108 76 | | 0 |
| Narrabri | b | 94 72 | | 0 |
| Armidale | b | 81 54 | | 0 |
| Bendem'r | b | 89 53 | | 0 |
| Gunned'h | b | 104 54 | | 0 |
| Coonab'rn | b | 96 54 | | 0 |
| P.Macqrie | b | 79 64 | | 0 |
| Murr'undi | b | 88 62 | | 0 |
| Cassilis.. | b | 101 56 | | 0 |
| Mus'br'ok | b | 101 58 | | 0 |
| Dubbo... | . | .. .. | | .. |
| Mudgee . | b | 98 48 | | 0 |
| Maitland. | b | 90 64 | | 0 |
| Hill End. | b | 85 52 | | 0 |
| Newcastle | b | 82 62 | | 0 |
| Orange.. | b | 88 58 | | 0 |
| Bathurst. | b | 91 57 | | 0 |
| Condob'in | . | .. .. | | .. |
| MtVict'ria | b | 90 59 | | 0 |
| Forbes... | c | 115 65 | | 0 |
| SYDNEY... | b | 78 65 | | 0 |
| | | E | | |
| Picton | b | 90 55 | | 0 |
| Wentw'th | b | 110 68 | | 0 |
| Young... | c | 92 .. | | 0 |
| Wollgo'ng | c | 89 62 | | 0 |
| Moss Vale | b | 90 62 | | 0 |
| Euston... | b | 114 69 | | 0 |
| Goulburn | b | 7 59 | | 0 |
| Wagga... | b | 10 65 | | 0 |
| Cape Geo. | b | 75 | | 0 |
| Queanb'n | b | 98 65 | | 0 |
| Deniliq'in | b | 109 72 | | 0 |
| Moruya.. | g | 76 62 | | 0 |
| Kiandra.. | b | 75 40 | | 0 |
| Albury . | b | 107 66 | | 0 |
| Bodalla. | | .. .. | | .. |
| Cooma... | b | 96 55 | | 0 |
| Eden.... | c | 75 60 | | 0·05 |
| Gabo Isl'd | c | 71 62 | | 0·01 |

As

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

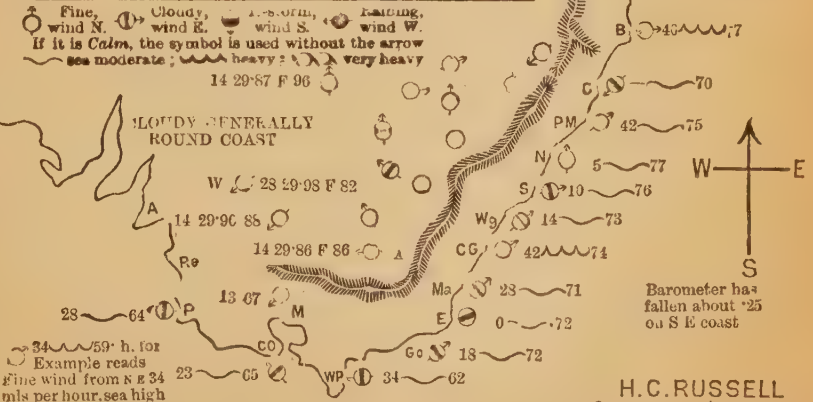
If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mi's WIND SCALE.
13-Li't brze
23-Mod. „
34-Fresh „
6-Strg gale
65-Whole „

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E




Barometer has fallen about ·25 on S E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

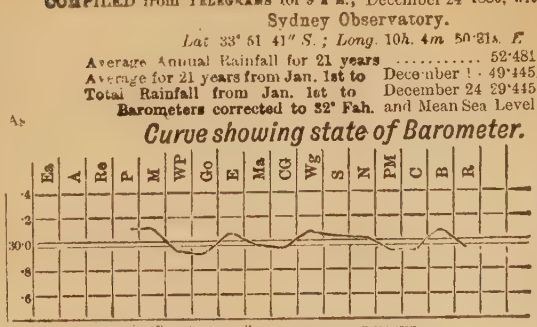
**COMPILED** from TELEGRAMS for 9 A.M., December 24 1880, with NOTES to 3 P.M.

Sydney Observatory.

*Lat* 33° 51 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

Average Annual Rainfall for 21 years ..... 52·481
Average for 21 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to December 24 29·445.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Wd | Max | Min | Rain |
|---|---|---|---|---|
| Casino. | b | 81 | 54 | 0 |
| Tenterfild | b | 80 | 47 | 0 |
| Moree.... | c | 78 | 41 | 0 |
| Grafton.. | b | 90 | 60 | 0 |
| Inverell.. | b | 84 | .. | 0 |
| Bourke .. | b | 111 | 81 | 0 |
| Narrabri | b | 95 | 73 | 0 |
| Armidale | b | 87 | 56 | 0 |
| Bendem'r | b | 93 | 65 | 0 |
| Gunned'h | . | 104 | 46 | 0 |
| Coonab'rn | b | 95 | 62 | 0 |
| P.Macqrie. | b | 79 | 65 | 0 |
| Murr'undi | b | 91 | 69 | 0 |
| Cassilis. | b | 104 | 64 | 0·26 |
| Mus'br'ok | b | 110 | 67 | 0·07 |
| Dubbo... | b | 99 | 74 | 0 |
| Mudgee . | b | 103 | 67 | 0 |
| Maitland. | c | 97 | 71 | 0 |
| Hill End. | b | 92 | 83 | 0 |
| Newcastle | g | 80 | 49 | 0 |
| Orange.. | b | 94 | 60 | 0 |
| Bathurst. | b | 96 | 63 | 0 |
| Condob'ln | b | 96 | 73 | 0 |
| MtVict'ria | b | 94 | 65 | 0 |
| Forbes... | b | 110 | 69 | 0 |
| SYDNEY... | c | 81 | 64 | 0 |
| | | E | | |
| Pictor | b | 96 | 57 | 0 |
| Wentw'th | b | 95 | 55 | 0 |
| Young... | b | 97 | 66 | 0 |
| Wollgo'ng | c | 81 | 62 | 0 |
| Moss Vale | g | 96 | 57 | 0 |
| Euston... | b | 101 | 59 | 0 |
| Goulburn | b | 99 | 52 | 0 |
| Wagga... | b | 107 | 59 | 0 |
| Cape Geo. | b | 66 | | 0 |
| Queanb'n | b | 100 | 62 | 0 |
| Deniliq'in | b | 101 | 56 | 0 |
| Moruya.. | . | .. | . | .. |
| Kiandra.. | b | 70 | 30 | 0 |
| Albury.. | b | 1 5 | 62 | 0 |
| Bodalla. | g | 96 | 50 | 0 |
| Cooma... | b | 95 | 53 | 0 |
| Eden.... | b | 70 | 59 | 0 |
| Gabo Isl'd | b | 75 | 58 | 0 |



**WEATHER.**
o-Blue sky.
c-Scatter'd clouds.
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

**WIND SCALE.**
13-Li't brze
23-Mod. „
34-Fresh „
56-Strg gale
65-Whole „

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has risen about ·27 on S E coast

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., December 27 1880, with NOTES to 3 P.M.

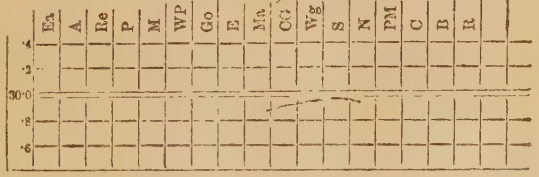
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·91*s* *E*

**Average Annual Rainfall for 21 years** ..... 52·181
**Average for 21 years from Jan. 1st to December** .. 29·145.
**Total Rainfall from Jan. 1st to December 27** 29·145.
**Barometers corrected to 32° Fah. and Mean Sea Level**

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | . | .. | .. | .. |
| Tenterfild | b | 91 | 46 | 0 |
| Moree.... | . | .. | .. | .. |
| Grafton.. | . | .. | .. | . |
| Inverell.. | . | .. | .. | . |
| Bourke.. | . | .. | .. | .. |
| Narrabri | . | .. | .. | .. |
| Armidale | . | .. | .. | .. |
| Bendem'r | | | | . |
| Gunned'h | . | .. | .. | .. |
| Coonab'rn | b | 98 | 69 | 0 |
| P.Macqrie | . | .. | .. | .. |
| Murr'undi | . | .. | .. | .. |
| Cassilis.. | . | .. | .. | .. |
| Mus'br'ok | . | .. | .. | .. |
| Dubbo... | . | .. | .. | .. |
| Mudgee.. | | .. | .. | .. |
| Maitland. | . | . | .. | .. |
| Hill End. | b | 94 | 52 | 0 |
| Newcastle | b | 85 | 51 | 0 |
| Orange.. | b | 93 | 64 | 0 |
| Bathurst. | b | 95 | 55 | 0 |
| Condob'ln | . | .. | .. | .. |
| MtViet'ria | . | .. | .. | .. |
| Forbes... | . | .. | .. | . |
| SYDNEY... | g | 80 | [illegible] | 0 |
| | | E | | |
| Pictor | o | 90 | 59 | 0 |
| Wentw'th | . | .. | .. | .. |
| Young... | b | 97 | 68 | 0 |
| Wollgo'ng | g | 81 | 62 | 0 |
| Moss Vale | b | 73 | 58 | 0 |
| Euston... | . | .. | .. | . |
| Goulburn | b | 98 | 57 | 0 |
| Wagga... | . | .. | .. | .. |
| Cape Geo. | g | 76 | . | 0 |
| Queanb'n | b | 100 | 57 | 0 |
| Deniliq'in | . | .. | .. | .. |
| Moruya.. | m | 76 | 61 | 0 |
| Kiandra.. | . | .. | .. | .. |
| Albury.. | b | 107 | 55 | 0 |
| Bodalla. | . | .. | .. | .. |
| Cooma... | | .. | .. | .. |
| Eden.... | . | .. | .. | .. |
| Gabo Isl'd | | .. | .. | .. |

## *Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. [illegible], wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

**WEATHER.**
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
Lift brze
Mod. ,,
Fresh ,,
Gale
Whole ,,

TIME BALL
Drops at 1 p.m. S.M.
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

34 59· h. for Example reads Fine wind from N E 34 mls per hour. sea high temperature 59 hail

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED** from TELEGRAMS for 9 A.M., December 28 1880, with NOTES to 3 P.M.

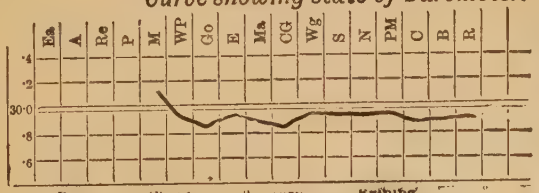
Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

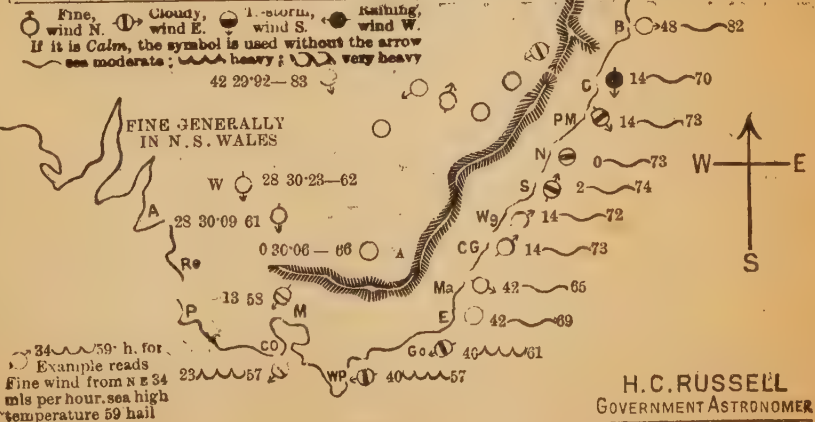
**Average Annual Rainfall for 21 years** ..... 52·481
**Average for 21 years from Jan. 1st to** December 1 · 49·445.
**Total Rainfall from Jan. 1st to** December 28 29·445.
**Barometers corrected to 32° Fah.** and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | g | 107 | 68 | 0 |
| Tenterfild | b | 91 | 50 | 0·31 |
| Moree.... | b | 97 | 74 | 0 |
| Grafton.. | g | 87 | 64 | 0·13 |
| Inverell.. | b | 9[illegible] | .. | 0 |
| Bourke .. | b | 106 | 70 | 0 |
| Narrabri | b | 104 | 74 | 0 |
| Armidale | b | 89 | 61 | 0 |
| Bendem'r | b | 97 | 59 | 0 |
| Gunned'h | b | 110 | 54 | 0·23 |
| Coonab'rn | b | 102 | 59 | 0 |
| P.Macqrie | g | 78 | 66 | 0 |
| Murr'undi | o | 97 | 67 | 0 |
| Cassilis.. | g | 78 | 54 | 0 |
| Mus'br'ok | b | 95 | 60 | 0 |
| Dubbo... | b | 98 | 69 | 0 |
| Mudgee.. | b | 105 | 60 | 0 |
| Maitland. | c | 84 | 69 | 0 |
| Hill End. | b | 98 | 50 | 0 |
| Newcastle | g | 84 | 58 | 0 |
| Orange.. | b | 83 | 58 | 0 |
| Bathurst. | b | 92 | 50 | 0 |
| Condob'ln | b | 75 | 66 | 0 |
| MtVict'ria | b | 83 | 51 | 0 |
| Forbes... | b | 99 | 65 | 0 |
| SYDNEY... | b | 74 | 66 | 0 |
| | | E | | |
| Pictor | b | 79 | 59 | 0 |
| Wentw'th | b | 82 | 52 | 0 |
| Young... | b | 88 | 34 | 0 |
| Wollgo'ng | b | 73 | 59 | 0 |
| Moss Vale | b | 80 | 57 | 0 |
| Euston... | b | .. | 53 | 0 |
| Goulburn | b | 89 | 51 | 0 |
| Wagga... | b | 89 | 46 | 0 |
| Cape Geo. | b | 74 | .. | 0 |
| Queanb'n | b | 91 | 54 | 0 |
| Deniliq'in | b | 82 | 48 | 0 |
| Moruya.. | b | 73 | 58 | 0 |
| Kiandra.. | c | 48 | 40 | 0 |
| Albury.. | b | 86 | 46 | 0 |
| Bodalla.. | b | 78 | 50 | 0 |
| Cooma... | b | 85 | 30 | 0 |
| Eden.... | b | 79 | 55 | 0 |
| Gabo Isl'd | g | 60 | 46 | 0 |

*Curve showing state of Barometer.*




Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy




34 59· h. for
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail

WEATHER
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mi's WIND SCALE.
13-Li't brze
23-Mod. „
34-Fresh „
56-Strg gale
65-Whole „

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

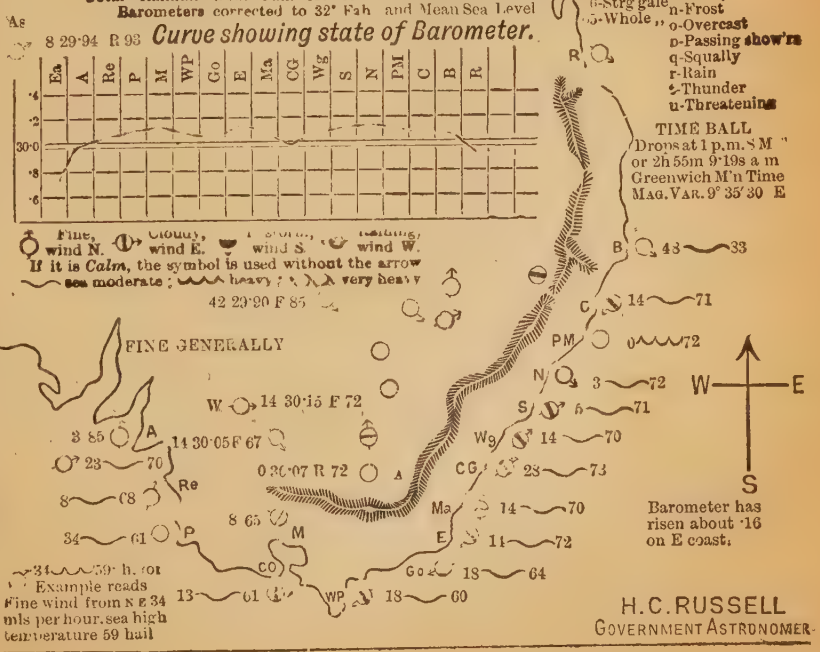
**COMPILED from TELEGRAMS for 9 A.M., December 29 1880, with NOTES to 3 P.M.**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

**Average** Annual Rainfall for 21 years ..... 52·481
**Average** for 21 years from Jan. 1st to December . . 49·445.
**Total** Rainfall from Jan. 1st to December 29 29·513.
**Barometers** corrected to 32° Fah and Mean Sea Level

| Stations. | Wth | Max | Min | Rain |
|---|---|---|---|---|
| Casino.. | g | 90 | 69 | 0 |
| Tenterfild | g | 85 | 55 | 0 |
| Moree.... | b | 93 | 81 | 0 |
| Grafton.. | g | 87 | 63 | 0·06 |
| Inverell.. | b | 90 | 80 | 0 |
| Bourke .. | b | 98 | 69 | 0 |
| Narrabri | b | 99 | 73 | 0 |
| Armidale | b | 90 | 59 | 0 |
| Bendem'r | b | 93 | 60 | 0 |
| Gunned'h | b | 104 | 59 | 0 |
| Coonab'rn | b | 77 | 60 | 0 |
| P.Macqrie | g | 74 | 63 | 0 |
| Murr'undi | b | 86 | 66 | 0 |
| Cassilis.. | g | 96 | 65 | 0 |
| Mus'br'ok | b | 93 | 58 | 0 |
| Dubbo... | b | 94 | 65 | 0 |
| Mudgee . | b | 95 | 63 | 0 |
| Maitland. | c | 83 | 72 | 0 |
| Hill End. | b | 87 | 52 | 0 |
| Newcastle | b | 79 | 68 | 0 |
| Orange.. | b | 82 | 56 | 0 |
| Bathurst. | b | 89 | 55 | 0 |
| Condob'ln | . | . | .. | .. |
| MtVict'ria | g | 84 | 52 | 0 |
| Forbes... | b | 106 | 59 | 0 |
| SYDNEY... | g | 79 | 63 | 0·07 |
| 28 101 | | E | | |
| Pictor | g | 83 | 61 | 0 |
| Wentw'th | g | 85 | 56 | 0 |
| Young... | b | 85 | 61 | 0 |
| Wollgo'ng | b | 81 | 60 | 0 |
| Moss Vale | g | 82 | 56 | 0 |
| Euston... | b | 84 | 56 | 0 |
| Goulburn | b | 90 | 54 | 0 |
| Wagga... | g | 90 | 50 | 0 |
| Cape Geo. | c | 76 | .. | 0 |
| Queanb'n | c | 94 | 59 | 0 |
| Deniliq'in | b | 72 | 43 | 0 |
| Moruya.. | c | 72 | 61 | 0 |
| Kiandra.. | . | . | .. | . |
| Albury.. | b | 92 | 52 | 0 |
| Bodalla. | b | 78 | 55 | 0 |
| Cooma... | g | 80 | 40 | 0 |
| Eden.... | c | 79 | 55 | 0 |
| Gabo Isl'd | b | 65 | 47 | 0 |




H. C. RUSSELL
GOVERNMENT ASTRONOMER.

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M.,** December 30 1880, with NOTES to 3 P.M.

**Sydney Observatory.**

*Lat.* 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

Average Annual Rainfall for 21 years ..... 52·481
Average for 21 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to December 30 29·513.
Barometers corrected to 32° Fah. and Mean Sea Level

| Stations. | Weh | Max. | Min. | rain |
|---|---|---|---|---|
| Casino | b | 88 | 70 | 0 |
| Tenterfield | b | 78 | 56 | 0 |
| Moree.... | b | 93 | 81 | 0 |
| Grafton.. | b | 77 | 62 | 0 |
| Inverell.. | b | 94 | 65 | 0 |
| Bourke .. | b | 105 | 72 | 0 |
| Narrabri | b | 98 | 74 | 0 |
| Armidale | b | 86 | 62 | 0 |
| Bendem'r | b | 94 | 61 | 0 |
| Gunned'h | b | 107 | 65 | 0 |
| Coonab'rn | b | 99 | 59 | 0 |
| P.Macqrie | b | 76 | 64 | 0 |
| Murr'undi | b | 89 | 65 | 0 |
| Cassilis. | b | 79 | 65 | 0 |
| Mus'br'ok | b | 93 | 62 | 0 |
| Dubbo... | . | .. | .. | .. |
| Mudgee . | b | 97 | 66 | 0 |
| Maitland. | b | 84 | 73 | 0 |
| Hill End. | b | 85 | 55 | 0 |
| Newcastle | b | 82 | 66 | 0 |
| Orange.. | b | 87 | 59 | 0 |
| Bathurst. | b | 91 | 58 | 0 |
| Condob'in | b | 85 | 65 | 0 |
| MtVict'ria | n | 82 | 57 | 0 |
| Forbes... | b | 110 | 67 | 0 |
| SYDNEY.. | c | 76 | 65 | 0 |
| 18 73 | | E | | |
| Picton | c | 90 | 56 | 0 |
| Wentw'th | b | 95 | 59 | 0 |
| Young... | b | 87 | 66 | 0 |
| Wollgo'ng | c | 84 | 61 | 0 |
| Moss Vale | . | .. | .. | . |
| Euston... | b | 115 | 53 | 0 |
| Goulburn | b | 91 | 59 | 0 |
| Wagga... | b | .. | 56 | 0 |
| Cape Geo. | c | 76 | .. | 0 |
| Queanb'n | b | 95 | 77 | 0 |
| Deniliq'in | b | 92 | 54 | 0 |
| Moruya.. | c | 76 | 61 | 0 |
| Kiandra.. | b | 70 | 58 | 0 |
| Albury.. | b | 99 | 52 | 0 |
| Bodalla.. | b | 79 | 55 | 0 |
| Cooma... | b | 86 | 58 | 0 |
| Eden.... | g | 75 | 62 | 0 |
| Gabo Isl'd | g | 75 | 60 | 0 |

As 18 29·58 R 104 *Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

0 29·81 F 97

FINE GENERALLY

W 28 29·97 F 88

23 96 A 0 29·89 F 66

34 75 Re 14 29·97 E 79 A

18 80 P 13 82 M

13 74 CO

34 59 h. for Example reads Fine wind from N E 34 m/s per hour. sea high temperature 59 hail

3 79 WP 23 64 Go 23 65 E 28 65 Ma 28 73 CG 28 72 Wg 14 75 S 5 74 N 4 74 PM 0 76 C 14 77 B 34 85 R

Mi's WIND SCALE. 13-Li't brze 23-Mod. " 34-Fresh " 56-Strg gale 65-Whole "

**WEATHER.**
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometer has fallen ~~risen~~ about ·18 on S W coast.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

# WEATHER MAP.

**COMPILED from TELEGRAMS for 9 A.M., December 31 1880, with NOTES to 3 P.M**

Sydney Observatory.

*Lat.* 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s* *E.*

Average Annual Rainfall for 21 years ..... 52·481
Average for 21 years from Jan. 1st to December ... 49·445.
Total Rainfall from Jan. 1st to December 31 29·513.
Barometers corrected to 32° Fah and Mean Sea Level

| Stations. | Weather | Max | Min | rain |
|---|---|---|---|---|
| Casino.. | b | 77 | 67 | 0·12 |
| Tenterfild | b | 94 | 56 | 0 |
| Moree.... | b | 98 | 83 | 0 |
| Grafton.. | b | 92 | 67 | 0 |
| Inverell.. | b | 93 | 60 | 0 |
| Bourke .. | b | 115 | 88 | 0 |
| Narrabri | b | 102 | 84 | 0 |
| Armidale | b | 89 | 67 | 0 |
| Bendem'r | b | 95 | 61 | 0 |
| Gunned'h | b | 109 | 65 | 0 |
| Coonab'rn | b | 103 | 66 | 0 |
| P.Macqrie | b | 81 | 74 | 0 |
| Murr'undi | b | 94 | 68 | 0 |
| Cassilis.. | b | 105 | 68 | 0 |
| Mus'br'ok | b | 103 | 68 | 0 |
| Dubbo... | b | 99 | 64 | 0 |
| Mudgee.. | b | 100 | 69 | 0 |
| Maitland. | b | 90 | .. | 0 |
| Hill End. | b | 90 | 60 | 0 |
| Newcastle | b | 86 | 65 | 0 |
| Orange.. | b | 91 | 62 | 0 |
| Bathurst. | b | 97 | 62 | 0 |
| Condob'ln | n | 88 | 77 | 0 |
| MtVict'ria | b | 92 | 62 | 0 |
| Forbes... | b | 107 | 68 | 0 |
| SYDNEY.. | b | 82 | 71 | 0 |
| Pictor | . | .. | .. | . |
| Wentw'th | b | 109 | 62 | 0 |
| Young... | g | 94 | 69 | 0 |
| Wollgo'ng | b | 82 | 69 | 0 |
| Moss Vale | b | 87 | 62 | 0 |
| Euston... | b | 114 | 53 | 0 |
| Goulburn | b | 100 | 60 | 0 |
| Wagga.... | o | .. | 53 | 0 |
| Cape Geo. | b | 77 | .. | 0 |
| Queanb'n | b | 99 | 68 | 0 |
| Deniliq'in | b | 105 | 67 | 0 |
| Moruya.. | b | 79 | 66 | 0 |
| Kiandra.. | g | 60 | 46 | 0 |
| Albury.. | c | 108 | 57 | 0 |
| Bodalla.. | b | 84 | 52 | 0 |
| Cooma... | c | 97 | 50 | 0 |
| Eden.... | c | 74 | 65 | 0 |
| Gabo Isl'd | g | 70 | 43 | 0 |

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FINE GENERALLY

Barometer has fallen about ·38 on S E coast.

Example reads
Fine wind from N E 34 mls per hour. sea high temperature 59 hail

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